

PQube 3 Modbus Interface

Reference manual

Revision 1.11



Table of Contents

- 1. Background on Modbus 2
- 2. Basics of Accessing Registers 3
 - 2.1 Registers 3
 - 2.2 Register Address Structure 3
 - 2.3 Query Functions..... 4
 - 2.4 Modbus Request Rates, Internal Registers Refresh Rate, and Limitations 4
 - 2.5 Error Responses to the Modbus Client Application..... 5
 - 2.6 Configuration for the PQube 3 Modbus Functionality 5
 - 2.7 PQube 3® Register Structure (Register Map)..... 6
- 3. Register Bank Tables 7
 - 3.1 PQube Classic Register Bank (Offset 0x0)..... 7
 - 3.2 PQube Static Configuration Bank (Offset 0x1000) 11
 - 3.3 PQube Voltages Bank (Offset 0x2000) 12
 - 3.4 PQube Currents Bank (Offset 0x4000)..... 19
 - 3.5 PQube Analog/HF Bank (Offset 0x6000)..... 29

1. Background on Modbus

Modbus is a communication protocol originally created by Modicon (now



Schneider Electric) in 1979 for communication between programmable logic controllers (PLCs). Modbus became an independently owned standard in 2004 by the Modbus Organization due to its widespread usage and popularity in industrial and SCADA systems.

For more information about Modbus and the protocol:

- en.wikipedia.org/wiki/Modbus
- modbus.org
- http://modbus.org/docs/PI_MBUS_300.pdf

2. Basics of Accessing Registers

The PQube 3® provided sets of registers. Each register is accessible through a register address, each register is dedicated to a specific measured parameter in the PQube 3®. The list of register addresses is called the register address map, and is described in details in chapter

[2.7 PQube 3® Register Structure \(Register Map\)](#)

When a register is “read,” the returned value is the present measured value of the corresponding chosen parameter.

The PQube 3® register values can be read by any third-party Modbus program.

PQube 3® implements the TCP/IP version of the Modbus protocol, known as “Modbus TCP/IP.”

Powerside also offers a free version of the Modbus client application for your PQube and PQube 3®.

<https://help.powerside.com/knowledge/download-the-latest-pqube-3-modbus-client>

2.1 Registers

PQube 3® Modbus registers are 16-bit wide. They are referenced by an address defined by the device address map. Accessing a single register at one address returns a 16-bit value. PQube 3 data values are accessed by 16-bit Modbus register reads.

Technical note: The PQube 3 implements 16-bit wide Modbus registers, it does not support Modbus coils (1-bit entities).

2.2 Register Address Structure

The structure, or address space in the PQube 3® is referred to as the **register map**. The register map is referenced to a **global base address** and is divided into **register banks**. Register banks are contiguous (sequential address) sets



of registers. **Banks** are divided into individual registers. Modbus **Data values** can span several registers, such as float values, which require two contiguous registers to read.

See more details on the Modbus register banks in chapter [2.7](#).

PQube 3® registers are addressed **relative** to a **common base address**.

The base address can be defined by the user in the PQube setup.ini file. Therefore, a PQube 3® can relocate its Modbus address space, but not change relative offsets. Some devices conventionally offset holding registers from address 0x4000, and input registers from 0x3000. The PQube 3 sets the default base address to 0x7000.

2.3 Query Functions

The Modbus protocol supports a number of query functions (see the protocol reference above).

The PQube3 only supports the following query functions:

Function 0x3: Read input register

Function 0x4: Read holding register

Function 0x6: Write single register

Function 0x10: Write multiple registers

“Input registers” are conventionally defined as PLC registers that are refreshed from device input sensors continually. “Holding registers” are conventionally defined as registers that are kept in memory and have read/write state. **The PQube3 does not distinguish between “input registers” and “holding registers.” All registers are considered to be memory-stored registers with READ_ONLY or READ_WRITE permissions.** Therefore, function queries 0x3 and 0x4 will both return the same register result regardless of address.

2.4 Modbus Request Rates, Internal Registers Refresh Rate, and Limitations

The PQube 3 Modbus register values are updated internally at around 2 Hz (twice per second).

The Modbus protocol limits single query register results to 125 registers per request (per “scan”). The rate of requests is a function of the Modbus client



program, PQube, and network speed. In most common situations, the rate of request is lower than the internal refresh rate. However, “scan” rates to PQube 3® can sustain at a higher rate, but the registers still refresh at an internal rate of around 2Hz.

The rate of polling registers can be sustained at a high rate while your PQube 3® is simultaneously capturing and recording events or generating trends.

The PQube3® supports multiple simultaneous Modbus client sessions, with conventional limit to 10 clients at a time.

2.5 Error Responses to the Modbus Client Application

The PQube3 will return the following Modbus errors:

ILLEGAL_ADDRESS_VALUE (0x02)

When Modbus queries fall outside of the address space.

ILLEGAL_DATA_VALUE (0x03)

When Modbus queries an address beyond the allowable limit.

ILLEGAL_FUNCTION_VALUE (code 0x01)

Used for queries at function values other than 0x3, 0x4, 0x6, or 0x10.

2.6 Configuration for the PQube 3 Modbus Functionality

The following parameters can be defined in the PQube setup.ini file:

Modbus Base Address:

The global base address from which all registers are offset. Default is 0x7000.

Modbus Query Port:

The TCP/IP port on which the Modbus server listens. Default port, 502.

Modbus Byte Order:

Data values spanning multiple registers (such as floats) can be reported in BIG ENDIAN or LITTLE ENDIAN. Default is BIG_ENDIAN.

Modbus Slave ID:

The PQube is assigned a slave ID required in queries. Default value is 0x1.



2.7 PQube 3® Register Structure (Register Map)

The PQube 3® register map supports **5 register banks**.

PQube Classic Register Bank: Bank Offset 0 (247 registers)

Contains PQube Classic Modbus functionality. The PQube 3, 3e, and 3v are backwards compatible with these registers. This allows Modbus application that were designed for the **PQube Classic** to function with the **PQube 3** models.

PQube Static Configuration Bank: Bank Offset 1000 (29 registers)

Contains static registers with PQube configuration settings. They are accessible by the **PQube Classic** and the newer **PQube 3** models .

PQube 3 Voltage Bank: Bank Offset 2000 (859 registers):

Contains dynamic voltage and harmonic outputs for the **PQube 3** models.

PQube 3 Current/Power/Energy Bank: Bank Offset 4000 (1273 registers):

Contains dynamic current, power, and scope outputs for the **PQube 3** models.

PQube 3 DC/HF/ENV Bank: Bank Offset 6000 (971 registers):

Contains dynamic DC value, probe, and HF output for the **PQube 3** models.



3. Register Bank Tables

3.1 PQube Classic Register Bank (Offset 0x0)

This register bank supports most of the PQube Classic functionality, with exceptions in registers: **92-95, 154-165, 167-173**.

Note: This bank is included in the PQube 3, 3e, 3v and 3rs, only to support legacy code. Unless you require backwards compatibility, use the newer equivalents in the Voltage, Current, and HF register banks.

PQube Classic Bank

PQube Classic Register Bank								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
0-1	L1-E	Float	Volt (RMS)	L1 to earth – $U_{rms10/12}$	✓	✓	✓	✓
2-3	L2-E	Float	Volt (RMS)	L2 to earth – $U_{rms10/12}$	✓	✓	✓	✓
4-5	L3-E	Float	Volt (RMS)	L3 to earth – $U_{rms10/12}$	✓	✓	✓	✓
6-7	N-E	Float	Volt (RMS)	Neutral to earth – $U_{rms10/12}$	✓	✓	✓	✓
8-9	L1-N	Float	Volt (RMS)	L1 to neutral – $U_{rms10/12}$	✓	✓	✓	✓
10-11	L2-N	Float	Volt (RMS)	L2 to neutral – $U_{rms10/12}$	✓	✓	✓	✓
12-13	L3-N	Float	Volt (RMS)	L3 to neutral – $U_{rms10/12}$	✓	✓	✓	✓
14-15	L1-L2	Float	Volt (RMS)	L1 to L2 – $U_{rms10/12}$	✓	✓	✓	✓
16-17	L2-L3	Float	Volt (RMS)	L2 to L3 – $U_{rms10/12}$	✓	✓	✓	✓
18-19	L3-L1	Float	Volt (RMS)	L3 to L1 – $U_{rms10/12}$	✓	✓	✓	✓
20-21	AN1-E	Float	Volt (RMS)	Analog 1 to Earth – $U_{rms10/12}$	✓	✓	✓	✓
22-23	AN2-E	Float	Volt (RMS)	Analog2 to Earth – $U_{rms10/12}$	✓	✓	✓	✓
24-25	AN1-AN2	Float	Volt (RMS)	Analog1 to Analog2 – $U_{rms10/12}$	✓	✓	✓	✓
26-27	Frequency	Float	Hz		✓	✓	✓	✓
28-29	L1_Current	Float	Amps (RMS)	$A_{rms10/12}$	✓	✓	✓	
30-31	L2_Current	Float	Amps (RMS)	$A_{rms10/12}$	✓	✓	✓	
32-33	L3_Current	Float	Amps (RMS)	$A_{rms10/12}$	✓	✓	✓	
34-35	N_Current	Float	Amps (RMS)	Neutral current - $A_{rms10/12}$	✓	✓	✓	
36-37	Total Power 1	Float	Watt	Also see 204-209	✓	✓	✓	
38-39	Total Apparent Power 1	Float	VA	Also see 210-215	✓	✓	✓	
40-41	Digital Input	Float	(none)	Usually 0 or 1; a fractional value indicates duty cycle	✓	✓	✓	✓
42-43	Peak_Current_(1-cycle)	Float	Amps (RMS)	$A_{rms10/12}$ See also registers 122-124:	✓	✓	✓	
44-45	Peak_Current_(1-minute)	Float	Amps (RMS)	1-minute RMS average See also registers 122-124	✓	✓	✓	
46-47	Peak_Current_(N-minute)	Float	Amps (RMS)	N-minute RMS average Typically, N is 10 minutes or 15 minutes. See register 1024. Also, see also registers 122-124	✓	✓	✓	
48-49	Peak Power (1-cycle)	Float	Watt	See also registers 125-127	✓	✓	✓	
50-51	Peak Power (1-minute)	Float	Watt	See also registers 125-127	✓	✓	✓	
52-53	Peak Power_(N-minute)	Float	W	Typically, N is 10 minutes or 15 minutes. See register 1024. Also, see registers 125-127	✓	✓	✓	
54-55	Peak VA (1-cycle)	Float	VA	See also registers 128-130	✓	✓	✓	
56-57	Peak VA (1-minute)	Float	VA	See also registers 128-130	✓	✓	✓	
58-59	Peak VA (N-minute)	Float	VA	See registers 128-130. Typically, N is 10 minutes or 15	✓	✓	✓	



PQube Classic Register Bank								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
				minutes - see register 1024.				
60-61	Total Energy 1	Float	Wh	Also, see registers 131-133	✓	✓	✓	
62-63	Total Apparent Energy 1	Float	VAh	Also, see registers 131-133	✓	✓	✓	
64-65	Voltage THD	Float	%	Also, see registers 192-197	✓	✓	✓	✓
66-67	Current TDD	Float	%	Also, see register 1020-1021: base current for TDD. Also, see registers 198-203.	✓	✓	✓	
68-69	ANSI_Voltage_Unbalance	Float	%	If using IEC or GB methods, see registers 174-175 and 178-179	✓	✓	✓	✓
70-71	ANSI_Current_Unbalance	Float	%	If using IEC or GB methods, see registers 176-177 and 180-181	✓	✓	✓	
72-73	L1_Flicker_P _{inst}	Float	-	Instantaneous value. For L2 and L3 see 228-239.	✓	✓	✓	✓
74-75	L1_Flicker_P _{ST}	Float	-	10-minute value. For L2 and L3 see 228-239.	✓	✓	✓	✓
76-77	L1_Flicker_P _{LT}	Float	-	2-hour value. For L2 and L3 see 228-239.	✓	✓	✓	✓
78	New_Event_Recordings	Integer	-	Number of new events recorded by PQube since last time this register was polled. This register is incremented when the files are fully available for download. This register is cleared by reading it.	✓	✓	✓	✓
79	New_Trend_Recordings	Integer	-	Number of new trends (daily, weekly, monthly) recorded by PQube since last time this register was polled. This register is incremented when the files are fully available for download. This register is cleared by reading it.	✓	✓	✓	✓
80-81	Total Reactive Power 1	Float	VAR	Also, see registers 216-221	✓	✓	✓	
82-83	Total True Power Factor 1	Float	-	Value between -1.0 and +1.0	✓	✓	✓	
84-85	Temperature __Probe_1	Float	°C	Modbus register is always in °C, even if user has selected °F for display	✓	✓	✓	✓
86-87	Humidity __Probe_1	Float	%RH	Relative humidity	✓	✓	✓	✓
88-89	Temperature __Probe_2	Float	°C	Modbus register is always in °C, even if user has selected °F for display	✓	✓	✓	✓
90-91	Humidity __Probe_2	Float	%RH	Relative humidity	✓	✓	✓	✓
92-93	CO ₂ rate	Float	Grams per hour	Not yet supported	✓	✓	✓	✓
94-95	CO ₂ accumulated	Float	Grams	Not yet supported.	✓	✓	✓	✓
96-97	Earth_current	Float	Amps (RMS)	A _{rms10/12}	✓	✓	✓	
98-99	L1-N_voltage_fundamental_magnitude	Float	Volt (RMS)	For delta systems, the PQube calculates a metering Neutral for this parameter.	✓	✓	✓	✓
100-101	L1-N_voltage_fundamental_angle	Float	degree	Range: ±180.0°	✓	✓	✓	✓
102-103	L2-N_voltage_fundamental_magnitude	Float	Volt (RMS)	For delta systems, the PQube calculates a metering Neutral for this parameter.	✓	✓	✓	✓
104-105	L2-N_voltage_fundamental_angle	Float	degree	Range: ±180.0°	✓	✓	✓	✓
106-107	L3-N_voltage_fundamental_magnitude	Float	Volt (RMS)	For delta systems, the PQube calculates a metering Neutral for this parameter.	✓	✓	✓	✓
108-109	L3-N_voltage_fundamental_angle	Float	degree	Range: ±180.0°	✓	✓	✓	✓
110-111	L1 current fundamental magnitude	Float	Amps (RMS)		✓	✓	✓	
112-113	L1 current fundamental angle	Float	degree	Range: ±180.0°	✓	✓	✓	
114-115	L2 current fundamental magnitude	Float	Amps (RMS)		✓	✓	✓	
116-117	L2 current fundamental angle	Float	degree	Range: ±180.0°	✓	✓	✓	
118-119	L3 current fundamental magnitude	Float	Amps (RMS)		✓	✓	✓	
120-121	L3 current fundamental angle	Float	degree	Range: ±180.0°	✓	✓	✓	
122	Peak current – "since" date	Integer	Year	Typical values: 2009, 2010, etc.	✓	✓	✓	
123	Peak current – "since" date	Integer	Month	Range: 1 – 12	✓	✓	✓	
124	Peak current – "since" date	Integer	Day	Range: 1 – 31	✓	✓	✓	
125	Peak power – "since" date	Integer	Year	Typical values: 2009, 2010, etc.	✓	✓	✓	
126	Peak power – "since" date	Integer	Month	Range: 1 – 12	✓	✓	✓	
127	Peak power – "since" date	Integer	Day	Range: 1 – 31	✓	✓	✓	
128	Peak VA – "since" date	Integer	Year	Typical values: 2009, 2010, etc.	✓	✓	✓	
129	Peak VA – "since" date	Integer	Month	Range: 1 – 12	✓	✓	✓	
130	Peak VA – "since" date	Integer	Day	Range: 1 – 31	✓	✓	✓	
131	Energy (Wh) – "since" date	Integer	Year	Typical values: 2009, 2010, etc.	✓	✓	✓	
132	Energy (Wh) – "since" date	Integer	Month	Range: 1 – 12	✓	✓	✓	
133	Energy (Wh) – "since" date	Integer	Day	Range: 1 – 31	✓	✓	✓	
134	PQube clock-calendar	Integer	Year	Typical values: 2009, 2010, etc.	✓	✓	✓	✓
135	PQube clock-calendar	Integer	Month	Range: 1 – 12	✓	✓	✓	✓
136	PQube clock-calendar	Integer	Day	Range: 1 – 31	✓	✓	✓	✓
137	PQube clock-calendar	Integer	Hour	Range 0 – 23	✓	✓	✓	✓
138	PQube clock-calendar	Integer	Min	Range 0 – 59	✓	✓	✓	✓
139	PQube clock-calendar	Integer	Second	Range 0 – 59	✓	✓	✓	✓
140-141	PQube offset from UTC	Float	Hours	Range -12.0 - +12.0. Set by user in Setup.ini file.	✓	✓	✓	✓
142-143	Harmonic __L1-N_Volt	Float	Volt (RMS)	Harmonic order specified in 166	✓			



PQube Classic Register Bank								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
144-145	Harmonic – L2-N Volt	Float	Volt (RMS)	Harmonic order specified in 166	✓			
146-147	Harmonic – L3-N Volt	Float	Volt (RMS)	Harmonic order specified in 166	✓			
148-149	Harmonic – L1 current	Float	Amps (RMS)	Harmonic order specified in 166	✓			
150-151	Harmonic – L2 current	Float	Amps (RMS)	Harmonic order specified in 166	✓			
152-153	Harmonic – L3 current	Float	Amps (RMS)	Harmonic order specified in 166	✓			
154-155	Harmonic – L1-N voltage angle	Float	degree	Not supported				
156-157	Harmonic – L2-N voltage angle	Float	degree	Not supported				
158-159	Harmonic – L3-N voltage angle	Float	degree	Not supported				
160-161	Harmonic – L1 current angle	Float	degree	Not supported.				
162-163	Harmonic – L2 current angle	Float	degree	Not supported.				
164-165	Harmonic – L3 current angle	Float	degree	Not supported.				
166	Harmonic_order_of_interest	Integer (Read/Write)	-	Range: 1-50, selected by user on PQube harmonic meters screens – defaults to 3 rd harmonic	✓			
167	GPS_status	Integer	-	0 = not installed 1 = not locked 2 = locked onto satellites and operating		✓	✓	✓
168-169	GPS_latitude	Float	degree	Range: ±90.0000° from equator		✓	✓	✓
170-171	GPS_longitude	Float	degree	Range: ±180.0000° from prime meridian		✓	✓	✓
172	GPS_number_of_satellites	Integer	-	Count of acquired satellites		✓	✓	✓
173	-	-	-	(Not used)				
174-175	IEC_or_GB_Unbalance_-_V-	Float	Percent	Fundamental negative-sequence voltage, as a percentage of fundamental positive-sequence voltage	✓	✓	✓	✓
176-177	IEC_or_GB_Unbalance_-_A-	Float	Percent	Fundamental negative-sequence current, as a percentage of fundamental positive-sequence current	✓	✓	✓	
178-179	IEC_or_GB_Unbalance_-_V0	Float	Percent	Fundamental zero-sequence voltage, as a percentage of fundamental positive-sequence voltage	✓	✓	✓	✓
180-181	IEC_or_GB_Unbalance_-_A0	Float	Percent	Fundamental zero-sequence current, as a percentage of fundamental positive-sequence current	✓	✓	✓	
182-183	DC_Power	Float	W	DC Volt multiplied by DC amps	✓	✓	✓	✓
184-185	DC_Energy	Float	Wh	DC energy accumulated since [date] – see registers 242-244	✓	✓	✓	✓
186-189	User_counter	Long Long	counts	Number of times the Analog or Digital Input channels were triggered since [date] – shares this reset date with Energy, see registers 131-133	✓			
190	Trigger_Snapshot	Write-only	-	Set this register to 1 to trigger a Snapshot with your PQube	✓	✓	✓	✓
191	Reset_Peak_Measurements	Write-only	-	Set this register to 1 to reset all peak measurements in your PQube	✓	✓	✓	✓
192-193	L1 Voltage THD	Float	%		✓	✓	✓	✓
194-195	L2 Voltage THD	Float	%		✓	✓	✓	✓
196-197	L3 Voltage THD	Float	%		✓	✓	✓	✓
198-199	L1 Current TDD	Float	%		✓	✓	✓	
200-201	L2 Current TDD	Float	%		✓	✓	✓	
202-203	L3 Current TDD	Float	%		✓	✓	✓	
204-205	L1 Power	Float	Watt		✓	✓	✓	
206-207	L2 Power	Float	Watt		✓	✓	✓	
208-209	L3 Power	Float	Watt		✓	✓	✓	
210-211	L1 Apparent Power (VA)	Float	VA		✓	✓	✓	
212-213	L2 Apparent Power (VA)	Float	VA		✓	✓	✓	
214-215	L3 Apparent Power (VA)	Float	VA		✓	✓	✓	
216-217	L1 volt-amps reactive	Float	VAR		✓	✓	✓	
218-219	L2 volt-amps reactive	Float	VAR		✓	✓	✓	
220-221	L3 volt-amps reactive	Float	VAR		✓	✓	✓	
222-223	L1 True Power Factor	Float	-	Value between -1.0 and +1.0	✓	✓	✓	
224-225	L2 True Power Factor	Float	-	Value between -1.0 and +1.0	✓	✓	✓	
226-227	L3 True Power Factor	Float	-	Value between -1.0 and +1.0	✓	✓	✓	
228-229	L2_Flicker_P _{inst}	Float	-	Instantaneous value. For L1 see 72-73	✓	✓	✓	✓
230-231	L3_Flicker_P _{inst}	Float	-	Instantaneous value. For L1 see 72-73	✓	✓	✓	✓
232-233	L2_Flicker_P _{ST}	Float	-	10-minute value. For L1 see 74-75	✓	✓	✓	✓
234-235	L3_Flicker_P _{ST}	Float	-	10-minute value. For L1 see 74-75	✓	✓	✓	✓
236-237	L2_Flicker_P _{LT}	Float	-	2-hour value. For L1 see 76-77	✓	✓	✓	✓
238-239	L3_Flicker_P _{LT}	Float	-	2-hour value. For L1 see 76-77	✓	✓	✓	✓



PQube Classic Register Bank								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
240-241	Total_Reactive_Energy_1	Float	VARh	VAR-hours accumulated since [date] - shares this reset date with Energy, see registers 131-133	✓	✓	✓	
242	DC_Energy- "since" date	Integer	Year	Typical values: 2009, 2010, etc.	✓	✓	✓	✓
243	DC_Energy- "since" date	Integer	Month	Range: 1 – 12	✓	✓	✓	✓
244	DC_Energy- "since" date	Integer	Day	Range: 1 – 31	✓	✓	✓	✓
245	Reset_Energy_Accumulators	Write-only	-	Set this register to 1 to reset the energy accumulators in your PQube	✓	✓	✓	
246	Reset_Analog_Energy_Accumulators	Write-only	-	Set this register to 1 to reset the analog energy accumulators in your PQube	✓	✓	✓	✓



3.2 PQube Static Configuration Bank (Offset 0x1000)

This register bank only changes values across reboots and supports the PQube Classic functionality, with exceptions in registers **1003** and **new registers in 0x1025-0x1056**.

PQube Static Configuration Bank

PQube Static Configuration Bank								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
1000	PQube_Firmware _Major_rev	Integer	-	Typically formatted as "3.3.4" or similar – Major.Minor.Bugfix	✓	✓	✓	✓
1001	PQube_Firmware _Minor_rev	Integer	-		✓	✓	✓	✓
1002	PQube_Firmware _Bug_fix_rev	Integer	-		✓	✓	✓	✓
1003	PQube_Firmware_build_number	Integer	-	Factory use: Not supported				
1004-1005	Nominal_L-N_voltage	Float	Volt (RMS)		✓	✓	✓	✓
1006-1007	Nominal_L-L_voltage	Float	Volt (RMS)		✓	✓	✓	✓
1008-1009	Nominal_frequency	Float	Hz		✓	✓	✓	✓
1010-1011	PT_(potential_transformer)_ratio	Float	-		✓	✓	✓	✓
1012-1013	CT_(current_transformer)_ratio	Float	-		✓	✓	✓	
1014-1015	PQube_serial_number	Float	-	PQube serial number, without leading "P" and leading zeros	✓	✓	✓	✓
1016-1017	AN1_(Analog_1-E)_multiplier	Float	-		✓	✓	✓	✓
1018-1019	AN2_(Analog_2-E)_multiplier	Float	-		✓	✓	✓	✓
1020-1021	Current_basis_for_TDD	Float	Amps (RMS)	Used for calculating IEEE 519 Current TDD, and for setting the maximum current of interest.	✓	✓	✓	
1022	Power_configuration	Integer	-	0 = single-phase L1-N 1 = single-phase L1-L2 2 = split single-phase 3 = Star / Wye 4 = Delta 5 = Split-phase Delta 255 = Not yet determined	✓	✓	✓	✓
1023	Ground_Point	Integer	-	0 = centered between all 3 phases 1 = L1 2 = L2 3 = L3 4 = centered between L1 and L2 5 = centered between L2 and L3 6 = centered between L3 and L1	✓	✓	✓	✓
1024	N-minutes	Integer	-	User-defined interval for peak current, power, and apparent power measurements. 15 minutes is the default value. In the setup file, you can define N to be 3, 5, 10, 15, 20, 30, or 60 minutes.	✓	✓	✓	✓
1025	PQube_Firmware_build_YEAR	Integer	-			✓	✓	✓
1026	PQube_Firmware_build_MONTH	Integer	-			✓	✓	✓
1027	PQube_Firmware_build_DAY	Integer	-			✓	✓	✓
1028	Voltage_or_Percent_Harmonic_Units	Integer	-	Expresses whether L1, L2 and L3 voltage harmonics are expressed in Volt or Percent of the Fundamental. Read only register reflects what has been set in setup.ini file		✓	✓	✓
1029	L1_Current_Config	Integer	-			✓	✓	
1030	L2_Current_Config	Integer	-			✓	✓	
1031	L3_Current_Config	Integer	-			✓	✓	
1032	L4_Current_Config	Integer	-			✓	✓	
1033	L5_Current_Config	Integer	-			✓	✓	
1034	L6_Current_Config	Integer	-			✓	✓	
1035	L7_Current_Config	Integer	-			✓	✓	
1036	L8_Current_Config	Integer	-			✓	✓	



PQube Static Configuration Bank								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
1037	L9 Current Config	Integer	-				✓	
1038	L10 Current Config	Integer	-				✓	
1039	L11 Current Config	Integer	-				✓	
1040	L12 Current Config	Integer	-				✓	
1041	L13 Current Config	Integer	-				✓	
1042	L14 Current Config	Integer	-				✓	
1043	L1 Current Voltage Pairing	Integer	-		✓		✓	
1044	L2 Current Voltage Pairing	Integer	-		✓		✓	
1045	L3 Current Voltage Pairing	Integer	-		✓		✓	
1046	L4 Current Voltage Pairing	Integer	-		✓		✓	
1047	L5 Current Voltage Pairing	Integer	-		✓		✓	
1048	L6 Current Voltage Pairing	Integer	-		✓		✓	
1049	L7 Current Voltage Pairing	Integer	-		✓		✓	
1050	L8 Current Voltage Pairing	Integer	-		✓		✓	
1051	L9 Current Voltage Pairing	Integer	-				✓	
1052	L10 Current Voltage Pairing	Integer	-				✓	
1053	L11 Current Voltage Pairing	Integer	-				✓	
1054	L12 Current Voltage Pairing	Integer	-				✓	
1055	L13 Current Voltage Pairing	Integer	-				✓	
1056	L14 Current Voltage Pairing	Integer	-				✓	

3.3 PQube Voltages Bank (Offset 0x2000)

This register bank focuses on phase voltages and harmonics. **It is new for the PQube 3.**

Voltages, Harmonics and Scopes

Voltages, Harmonics, and Scopes								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
2000	L1_E_RMS_Half	Float	Volt (RMS)			✓	✓	✓
2002	L2_E_RMS_Half	Float	Volt (RMS)			✓	✓	✓
2004	L3_E_RMS_Half	Float	Volt (RMS)			✓	✓	✓
2006	NU_E_RMS_Half	Float	Volt (RMS)			✓	✓	✓
2008	L1_N_RMS_Half	Float	Volt (RMS)			✓	✓	✓
2010	L2_N_RMS_Half	Float	Volt (RMS)			✓	✓	✓
2012	L3_N_RMS_Half	Float	Volt (RMS)			✓	✓	✓
2014	L1_L2_RMS_Half	Float	Volt (RMS)			✓	✓	✓
2016	L2_L3_RMS_Half	Float	Volt (RMS)			✓	✓	✓
2018	L3_L1_RMS_Half	Float	Volt (RMS)			✓	✓	✓
2020	Frequency	Float	Hz			✓	✓	✓
2022	Fundamental L1 Voltage	Float	Volt (RMS)			✓	✓	✓
2024	Fundamental L2 Voltage	Float	Volt (RMS)			✓	✓	✓
2026	Fundamental L3 Voltage	Float	Volt (RMS)			✓	✓	✓
2028	Fundamental L1 Voltage Angle	Float	degree			✓	✓	✓
2030	Fundamental L2 Voltage Angle	Float	degree			✓	✓	✓
2032	Fundamental L3 Voltage Angle	Float	degree			✓	✓	✓
2034	L1_Voltage_Scope_Point0	Float	Volt	Point #0 of 32 in the 'one cycle' wave form for L1-N (single phase and 3-phase WYE) or L-L (3-phase DELTA)		✓	✓	✓
2036	L1_Voltage_Scope_Point1	Float	Volt			✓	✓	✓
2038	L1_Voltage_Scope_Point2	Float	Volt			✓	✓	✓
2040	L1_Voltage_Scope_Point3	Float	Volt			✓	✓	✓
2042	L1_Voltage_Scope_Point4	Float	Volt			✓	✓	✓
2044	L1_Voltage_Scope_Point5	Float	Volt			✓	✓	✓
2046	L1_Voltage_Scope_Point6	Float	Volt			✓	✓	✓
2048	L1_Voltage_Scope_Point7	Float	Volt			✓	✓	✓



Voltages, Harmonics, and Scopes								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
2050	L1_Voltage_Scope_Point8	Float	Volt			✓	✓	✓
2052	L1_Voltage_Scope_Point9	Float	Volt			✓	✓	✓
2054	L1_Voltage_Scope_Point10	Float	Volt			✓	✓	✓
2056	L1_Voltage_Scope_Point11	Float	Volt			✓	✓	✓
2058	L1_Voltage_Scope_Point12	Float	Volt			✓	✓	✓
2060	L1_Voltage_Scope_Point13	Float	Volt			✓	✓	✓
2062	L1_Voltage_Scope_Point14	Float	Volt			✓	✓	✓
2064	L1_Voltage_Scope_Point15	Float	Volt			✓	✓	✓
2066	L1_Voltage_Scope_Point16	Float	Volt			✓	✓	✓
2068	L1_Voltage_Scope_Point17	Float	Volt			✓	✓	✓
2070	L1_Voltage_Scope_Point18	Float	Volt			✓	✓	✓
2072	L1_Voltage_Scope_Point19	Float	Volt			✓	✓	✓
2074	L1_Voltage_Scope_Point20	Float	Volt			✓	✓	✓
2076	L1_Voltage_Scope_Point21	Float	Volt			✓	✓	✓
2078	L1_Voltage_Scope_Point22	Float	Volt			✓	✓	✓
2080	L1_Voltage_Scope_Point23	Float	Volt			✓	✓	✓
2082	L1_Voltage_Scope_Point24	Float	Volt			✓	✓	✓
2084	L1_Voltage_Scope_Point25	Float	Volt			✓	✓	✓
2086	L1_Voltage_Scope_Point26	Float	Volt			✓	✓	✓
2088	L1_Voltage_Scope_Point27	Float	Volt			✓	✓	✓
2090	L1_Voltage_Scope_Point28	Float	Volt			✓	✓	✓
2092	L1_Voltage_Scope_Point29	Float	Volt			✓	✓	✓
2094	L1_Voltage_Scope_Point30	Float	Volt			✓	✓	✓
2096	L1_Voltage_Scope_Point31	Float	Volt			✓	✓	✓
2098	L2_Voltage_Scope_Point0	Float	Volt	Point #0 of 32 in the 'one cycle' wave form for L2-N (single phase and 3-phase WYE) or L-L (3-phase DELTA)		✓	✓	✓
2100	L2_Voltage_Scope_Point1	Float	Volt			✓	✓	✓
2102	L2_Voltage_Scope_Point2	Float	Volt			✓	✓	✓
2104	L2_Voltage_Scope_Point3	Float	Volt			✓	✓	✓
2106	L2_Voltage_Scope_Point4	Float	Volt			✓	✓	✓
2108	L2_Voltage_Scope_Point5	Float	Volt			✓	✓	✓
2110	L2_Voltage_Scope_Point6	Float	Volt			✓	✓	✓
2112	L2_Voltage_Scope_Point7	Float	Volt			✓	✓	✓
2114	L2_Voltage_Scope_Point8	Float	Volt			✓	✓	✓
2116	L2_Voltage_Scope_Point9	Float	Volt			✓	✓	✓
2118	L2_Voltage_Scope_Point10	Float	Volt			✓	✓	✓
2120	L2_Voltage_Scope_Point11	Float	Volt			✓	✓	✓
2122	L2_Voltage_Scope_Point12	Float	Volt			✓	✓	✓
2124	L2_Voltage_Scope_Point13	Float	Volt			✓	✓	✓
2126	L2_Voltage_Scope_Point14	Float	Volt			✓	✓	✓
2128	L2_Voltage_Scope_Point15	Float	Volt			✓	✓	✓
2130	L2_Voltage_Scope_Point16	Float	Volt			✓	✓	✓
2132	L2_Voltage_Scope_Point17	Float	Volt			✓	✓	✓
2134	L2_Voltage_Scope_Point18	Float	Volt			✓	✓	✓
2136	L2_Voltage_Scope_Point19	Float	Volt			✓	✓	✓
2138	L2_Voltage_Scope_Point20	Float	Volt			✓	✓	✓
2140	L2_Voltage_Scope_Point21	Float	Volt			✓	✓	✓
2142	L2_Voltage_Scope_Point22	Float	Volt			✓	✓	✓
2144	L2_Voltage_Scope_Point23	Float	Volt			✓	✓	✓
2146	L2_Voltage_Scope_Point24	Float	Volt			✓	✓	✓
2148	L2_Voltage_Scope_Point25	Float	Volt			✓	✓	✓
2150	L2_Voltage_Scope_Point26	Float	Volt			✓	✓	✓
2152	L2_Voltage_Scope_Point27	Float	Volt			✓	✓	✓
2154	L2_Voltage_Scope_Point28	Float	Volt			✓	✓	✓
2156	L2_Voltage_Scope_Point29	Float	Volt			✓	✓	✓
2158	L2_Voltage_Scope_Point30	Float	Volt			✓	✓	✓
2160	L2_Voltage_Scope_Point31	Float	Volt			✓	✓	✓
2162	L3_Voltage_Scope_Point0	Float	Volt	Point #0 of 32 in the 'one cycle' wave form for L3-N (single phase and 3-phase WYE) or L-L (3-phase DELTA)		✓	✓	✓
2164	L3_Voltage_Scope_Point1	Float	Volt			✓	✓	✓
2166	L3_Voltage_Scope_Point2	Float	Volt			✓	✓	✓
2168	L3_Voltage_Scope_Point3	Float	Volt			✓	✓	✓
2170	L3_Voltage_Scope_Point4	Float	Volt			✓	✓	✓



Voltages, Harmonics, and Scopes								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
2172	L3_Voltage_Scope_Point5	Float	Volt			✓	✓	✓
2174	L3_Voltage_Scope_Point6	Float	Volt			✓	✓	✓
2176	L3_Voltage_Scope_Point7	Float	Volt			✓	✓	✓
2178	L3_Voltage_Scope_Point8	Float	Volt			✓	✓	✓
2180	L3_Voltage_Scope_Point9	Float	Volt			✓	✓	✓
2182	L3_Voltage_Scope_Point10	Float	Volt			✓	✓	✓
2184	L3_Voltage_Scope_Point11	Float	Volt			✓	✓	✓
2186	L3_Voltage_Scope_Point12	Float	Volt			✓	✓	✓
2188	L3_Voltage_Scope_Point13	Float	Volt			✓	✓	✓
2190	L3_Voltage_Scope_Point14	Float	Volt			✓	✓	✓
2192	L3_Voltage_Scope_Point15	Float	Volt			✓	✓	✓
2194	L3_Voltage_Scope_Point16	Float	Volt			✓	✓	✓
2196	L3_Voltage_Scope_Point17	Float	Volt			✓	✓	✓
2198	L3_Voltage_Scope_Point18	Float	Volt			✓	✓	✓
2200	L3_Voltage_Scope_Point19	Float	Volt			✓	✓	✓
2202	L3_Voltage_Scope_Point20	Float	Volt			✓	✓	✓
2204	L3_Voltage_Scope_Point21	Float	Volt			✓	✓	✓
2206	L3_Voltage_Scope_Point22	Float	Volt			✓	✓	✓
2208	L3_Voltage_Scope_Point23	Float	Volt			✓	✓	✓
2210	L3_Voltage_Scope_Point24	Float	Volt			✓	✓	✓
2212	L3_Voltage_Scope_Point25	Float	Volt			✓	✓	✓
2214	L3_Voltage_Scope_Point26	Float	Volt			✓	✓	✓
2216	L3_Voltage_Scope_Point27	Float	Volt			✓	✓	✓
2218	L3_Voltage_Scope_Point28	Float	Volt			✓	✓	✓
2220	L3_Voltage_Scope_Point29	Float	Volt			✓	✓	✓
2222	L3_Voltage_Scope_Point30	Float	Volt			✓	✓	✓
2224	L3_Voltage_Scope_Point31	Float	Volt			✓	✓	✓
2226	L1_E_RMS_10_12	Float	Volt (RMS)			✓	✓	✓
2228	L2_E_RMS_10_12	Float	Volt (RMS)			✓	✓	✓
2230	L3_E_RMS_10_12	Float	Volt (RMS)			✓	✓	✓
2232	L1_Voltage_Harmonic_H1	Float	Volt			✓	✓	✓
2234	L1_Voltage_Harmonic_H2	Float	Volt or %H1	Unit is function of configuration tag in PQube 3. See register 1028		✓	✓	✓
2236	L1_Voltage_Harmonic_H3	Float	Volt or %H1			✓	✓	✓
2238	L1_Voltage_Harmonic_H4	Float	Volt or %H1			✓	✓	✓
2240	L1_Voltage_Harmonic_H5	Float	Volt or %H1			✓	✓	✓
2242	L1_Voltage_Harmonic_H6	Float	Volt or %H1			✓	✓	✓
2244	L1_Voltage_Harmonic_H7	Float	Volt or %H1			✓	✓	✓
2246	L1_Voltage_Harmonic_H8	Float	Volt or %H1			✓	✓	✓
2248	L1_Voltage_Harmonic_H9	Float	Volt or %H1			✓	✓	✓
2250	L1_Voltage_Harmonic_H10	Float	Volt or %H1			✓	✓	✓
2252	L1_Voltage_Harmonic_H11	Float	Volt or %H1			✓	✓	✓
2254	L1_Voltage_Harmonic_H12	Float	Volt or %H1			✓	✓	✓
2256	L1_Voltage_Harmonic_H13	Float	Volt or %H1			✓	✓	✓
2258	L1_Voltage_Harmonic_H14	Float	Volt or %H1			✓	✓	✓
2260	L1_Voltage_Harmonic_H15	Float	Volt or %H1			✓	✓	✓
2262	L1_Voltage_Harmonic_H16	Float	Volt or %H1			✓	✓	✓
2264	L1_Voltage_Harmonic_H17	Float	Volt or %H1			✓	✓	✓
2266	L1_Voltage_Harmonic_H18	Float	Volt or %H1			✓	✓	✓
2268	L1_Voltage_Harmonic_H19	Float	Volt or %H1			✓	✓	✓
2270	L1_Voltage_Harmonic_H20	Float	Volt or %H1			✓	✓	✓
2272	L1_Voltage_Harmonic_H21	Float	Volt or %H1			✓	✓	✓
2274	L1_Voltage_Harmonic_H22	Float	Volt or %H1			✓	✓	✓
2276	L1_Voltage_Harmonic_H23	Float	Volt or %H1			✓	✓	✓
2278	L1_Voltage_Harmonic_H24	Float	Volt or %H1			✓	✓	✓
2280	L1_Voltage_Harmonic_H25	Float	Volt or %H1			✓	✓	✓
2282	L1_Voltage_Harmonic_H26	Float	Volt or %H1			✓	✓	✓
2284	L1_Voltage_Harmonic_H27	Float	Volt or %H1			✓	✓	✓
2286	L1_Voltage_Harmonic_H28	Float	Volt or %H1			✓	✓	✓
2288	L1_Voltage_Harmonic_H29	Float	Volt or %H1			✓	✓	✓
2290	L1_Voltage_Harmonic_H30	Float	Volt or %H1			✓	✓	✓
2292	L1_Voltage_Harmonic_H31	Float	Volt or %H1			✓	✓	✓
2294	L1_Voltage_Harmonic_H32	Float	Volt or %H1			✓	✓	✓
2296	L1_Voltage_Harmonic_H33	Float	Volt or %H1			✓	✓	✓
2298	L1_Voltage_Harmonic_H34	Float	Volt or %H1			✓	✓	✓



Voltages, Harmonics, and Scopes								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
2300	L1_Voltage_Harmonic_H35	Float	Volt or %H1			✓	✓	✓
2302	L1_Voltage_Harmonic_H36	Float	Volt or %H1			✓	✓	✓
2304	L1_Voltage_Harmonic_H37	Float	Volt or %H1			✓	✓	✓
2306	L1_Voltage_Harmonic_H38	Float	Volt or %H1			✓	✓	✓
2308	L1_Voltage_Harmonic_H39	Float	Volt or %H1			✓	✓	✓
2310	L1_Voltage_Harmonic_H40	Float	Volt or %H1			✓	✓	✓
2312	L1_Voltage_Harmonic_H41	Float	Volt or %H1			✓	✓	✓
2314	L1_Voltage_Harmonic_H42	Float	Volt or %H1			✓	✓	✓
2316	L1_Voltage_Harmonic_H43	Float	Volt or %H1			✓	✓	✓
2318	L1_Voltage_Harmonic_H44	Float	Volt or %H1			✓	✓	✓
2320	L1_Voltage_Harmonic_H45	Float	Volt or %H1			✓	✓	✓
2322	L1_Voltage_Harmonic_H46	Float	Volt or %H1			✓	✓	✓
2324	L1_Voltage_Harmonic_H47	Float	Volt or %H1			✓	✓	✓
2326	L1_Voltage_Harmonic_H48	Float	Volt or %H1			✓	✓	✓
2328	L1_Voltage_Harmonic_H49	Float	Volt or %H1			✓	✓	✓
2330	L1_Voltage_Harmonic_H50	Float	Volt or %H1			✓	✓	✓
2332	L2_Voltage_Harmonic_H1	Float	Volt			✓	✓	✓
2334	L2_Voltage_Harmonic_H2	Float	Volt or %H1	Unit is function of configuration tag in PQube 3. See register 1028		✓	✓	✓
2336	L2_Voltage_Harmonic_H3	Float	Volt or %H1			✓	✓	✓
2338	L2_Voltage_Harmonic_H4	Float	Volt or %H1			✓	✓	✓
2340	L2_Voltage_Harmonic_H5	Float	Volt or %H1			✓	✓	✓
2342	L2_Voltage_Harmonic_H6	Float	Volt or %H1			✓	✓	✓
2344	L2_Voltage_Harmonic_H7	Float	Volt or %H1			✓	✓	✓
2346	L2_Voltage_Harmonic_H8	Float	Volt or %H1			✓	✓	✓
2348	L2_Voltage_Harmonic_H9	Float	Volt or %H1			✓	✓	✓
2350	L2_Voltage_Harmonic_H10	Float	Volt or %H1			✓	✓	✓
2352	L2_Voltage_Harmonic_H11	Float	Volt or %H1			✓	✓	✓
2354	L2_Voltage_Harmonic_H12	Float	Volt or %H1			✓	✓	✓
2356	L2_Voltage_Harmonic_H13	Float	Volt or %H1			✓	✓	✓
2358	L2_Voltage_Harmonic_H14	Float	Volt or %H1			✓	✓	✓
2360	L2_Voltage_Harmonic_H15	Float	Volt or %H1			✓	✓	✓
2362	L2_Voltage_Harmonic_H16	Float	Volt or %H1			✓	✓	✓
2364	L2_Voltage_Harmonic_H17	Float	Volt or %H1			✓	✓	✓
2366	L2_Voltage_Harmonic_H18	Float	Volt or %H1			✓	✓	✓
2368	L2_Voltage_Harmonic_H19	Float	Volt or %H1			✓	✓	✓
2370	L2_Voltage_Harmonic_H20	Float	Volt or %H1			✓	✓	✓
2372	L2_Voltage_Harmonic_H21	Float	Volt or %H1			✓	✓	✓
2374	L2_Voltage_Harmonic_H22	Float	Volt or %H1			✓	✓	✓
2376	L2_Voltage_Harmonic_H23	Float	Volt or %H1			✓	✓	✓
2378	L2_Voltage_Harmonic_H24	Float	Volt or %H1			✓	✓	✓
2380	L2_Voltage_Harmonic_H25	Float	Volt or %H1			✓	✓	✓
2382	L2_Voltage_Harmonic_H26	Float	Volt or %H1			✓	✓	✓
2384	L2_Voltage_Harmonic_H27	Float	Volt or %H1			✓	✓	✓
2386	L2_Voltage_Harmonic_H28	Float	Volt or %H1			✓	✓	✓
2388	L2_Voltage_Harmonic_H29	Float	Volt or %H1			✓	✓	✓
2390	L2_Voltage_Harmonic_H30	Float	Volt or %H1			✓	✓	✓
2392	L2_Voltage_Harmonic_H31	Float	Volt or %H1			✓	✓	✓
2394	L2_Voltage_Harmonic_H32	Float	Volt or %H1			✓	✓	✓
2396	L2_Voltage_Harmonic_H33	Float	Volt or %H1			✓	✓	✓
2398	L2_Voltage_Harmonic_H34	Float	Volt or %H1			✓	✓	✓
2400	L2_Voltage_Harmonic_H35	Float	Volt or %H1			✓	✓	✓
2402	L2_Voltage_Harmonic_H36	Float	Volt or %H1			✓	✓	✓
2404	L2_Voltage_Harmonic_H37	Float	Volt or %H1			✓	✓	✓
2406	L2_Voltage_Harmonic_H38	Float	Volt or %H1			✓	✓	✓
2408	L2_Voltage_Harmonic_H39	Float	Volt or %H1			✓	✓	✓
2410	L2_Voltage_Harmonic_H40	Float	Volt or %H1			✓	✓	✓
2412	L2_Voltage_Harmonic_H41	Float	Volt or %H1			✓	✓	✓
2414	L2_Voltage_Harmonic_H42	Float	Volt or %H1			✓	✓	✓
2416	L2_Voltage_Harmonic_H43	Float	Volt or %H1			✓	✓	✓
2418	L2_Voltage_Harmonic_H44	Float	Volt or %H1			✓	✓	✓
2420	L2_Voltage_Harmonic_H45	Float	Volt or %H1			✓	✓	✓
2422	L2_Voltage_Harmonic_H46	Float	Volt or %H1			✓	✓	✓
2424	L2_Voltage_Harmonic_H47	Float	Volt or %H1			✓	✓	✓
2426	L2_Voltage_Harmonic_H48	Float	Volt or %H1			✓	✓	✓



Voltages, Harmonics, and Scopes								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
2428	L2_Voltage_Harmonic_H49	Float	Volt or %H1			✓	✓	✓
2430	L2_Voltage_Harmonic_H50	Float	Volt or %H1			✓	✓	✓
2432	L3_Voltage_Harmonic_H1	Float	Volt			✓	✓	✓
2434	L3_Voltage_Harmonic_H2	Float	Volt or %H1	Unit is function of configuration tag in PQube 3. See register 1028		✓	✓	✓
2436	L3_Voltage_Harmonic_H3	Float	Volt or %H1			✓	✓	✓
2438	L3_Voltage_Harmonic_H4	Float	Volt or %H1			✓	✓	✓
2440	L3_Voltage_Harmonic_H5	Float	Volt or %H1			✓	✓	✓
2442	L3_Voltage_Harmonic_H6	Float	Volt or %H1			✓	✓	✓
2444	L3_Voltage_Harmonic_H7	Float	Volt or %H1			✓	✓	✓
2446	L3_Voltage_Harmonic_H8	Float	Volt or %H1			✓	✓	✓
2448	L3_Voltage_Harmonic_H9	Float	Volt or %H1			✓	✓	✓
2450	L3_Voltage_Harmonic_H10	Float	Volt or %H1			✓	✓	✓
2452	L3_Voltage_Harmonic_H11	Float	Volt or %H1			✓	✓	✓
2454	L3_Voltage_Harmonic_H12	Float	Volt or %H1			✓	✓	✓
2456	L3_Voltage_Harmonic_H13	Float	Volt or %H1			✓	✓	✓
2458	L3_Voltage_Harmonic_H14	Float	Volt or %H1			✓	✓	✓
2460	L3_Voltage_Harmonic_H15	Float	Volt or %H1			✓	✓	✓
2462	L3_Voltage_Harmonic_H16	Float	Volt or %H1			✓	✓	✓
2464	L3_Voltage_Harmonic_H17	Float	Volt or %H1			✓	✓	✓
2466	L3_Voltage_Harmonic_H18	Float	Volt or %H1			✓	✓	✓
2468	L3_Voltage_Harmonic_H19	Float	Volt or %H1			✓	✓	✓
2470	L3_Voltage_Harmonic_H20	Float	Volt or %H1			✓	✓	✓
2472	L3_Voltage_Harmonic_H21	Float	Volt or %H1			✓	✓	✓
2474	L3_Voltage_Harmonic_H22	Float	Volt or %H1			✓	✓	✓
2476	L3_Voltage_Harmonic_H23	Float	Volt or %H1			✓	✓	✓
2478	L3_Voltage_Harmonic_H24	Float	Volt or %H1			✓	✓	✓
2480	L3_Voltage_Harmonic_H25	Float	Volt or %H1			✓	✓	✓
2482	L3_Voltage_Harmonic_H26	Float	Volt or %H1			✓	✓	✓
2484	L3_Voltage_Harmonic_H27	Float	Volt or %H1			✓	✓	✓
2486	L3_Voltage_Harmonic_H28	Float	Volt or %H1			✓	✓	✓
2488	L3_Voltage_Harmonic_H29	Float	Volt or %H1			✓	✓	✓
2490	L3_Voltage_Harmonic_H30	Float	Volt or %H1			✓	✓	✓
2492	L3_Voltage_Harmonic_H31	Float	Volt or %H1			✓	✓	✓
2494	L3_Voltage_Harmonic_H32	Float	Volt or %H1			✓	✓	✓
2496	L3_Voltage_Harmonic_H33	Float	Volt or %H1			✓	✓	✓
2498	L3_Voltage_Harmonic_H34	Float	Volt or %H1			✓	✓	✓
2500	L3_Voltage_Harmonic_H35	Float	Volt or %H1			✓	✓	✓
2502	L3_Voltage_Harmonic_H36	Float	Volt or %H1			✓	✓	✓
2504	L3_Voltage_Harmonic_H37	Float	Volt or %H1			✓	✓	✓
2506	L3_Voltage_Harmonic_H38	Float	Volt or %H1			✓	✓	✓
2508	L3_Voltage_Harmonic_H39	Float	Volt or %H1			✓	✓	✓
2510	L3_Voltage_Harmonic_H40	Float	Volt or %H1			✓	✓	✓
2512	L3_Voltage_Harmonic_H41	Float	Volt or %H1			✓	✓	✓
2514	L3_Voltage_Harmonic_H42	Float	Volt or %H1			✓	✓	✓
2516	L3_Voltage_Harmonic_H43	Float	Volt or %H1			✓	✓	✓
2518	L3_Voltage_Harmonic_H44	Float	Volt or %H1			✓	✓	✓
2520	L3_Voltage_Harmonic_H45	Float	Volt or %H1			✓	✓	✓
2522	L3_Voltage_Harmonic_H46	Float	Volt or %H1			✓	✓	✓
2524	L3_Voltage_Harmonic_H47	Float	Volt or %H1			✓	✓	✓
2526	L3_Voltage_Harmonic_H48	Float	Volt or %H1			✓	✓	✓
2528	L3_Voltage_Harmonic_H49	Float	Volt or %H1			✓	✓	✓
2530	L3_Voltage_Harmonic_H50	Float	Volt or %H1			✓	✓	✓
2532	L1_Voltage_Interharmonic_H1	Float	Volt			✓	✓	✓
2534	L1_Voltage_Interharmonic_H2	Float	Volt or %H1	Unit is function of configuration tag in PQube 3. See register 1028		✓	✓	✓
2536	L1_Voltage_Interharmonic_H3	Float	Volt or %H1			✓	✓	✓
2538	L1_Voltage_Interharmonic_H4	Float	Volt or %H1			✓	✓	✓
2540	L1_Voltage_Interharmonic_H5	Float	Volt or %H1			✓	✓	✓
2542	L1_Voltage_Interharmonic_H6	Float	Volt or %H1			✓	✓	✓
2544	L1_Voltage_Interharmonic_H7	Float	Volt or %H1			✓	✓	✓
2546	L1_Voltage_Interharmonic_H8	Float	Volt or %H1			✓	✓	✓
2548	L1_Voltage_Interharmonic_H9	Float	Volt or %H1			✓	✓	✓
2550	L1_Voltage_Interharmonic_H10	Float	Volt or %H1			✓	✓	✓
2552	L1_Voltage_Interharmonic_H11	Float	Volt or %H1			✓	✓	✓



Voltages, Harmonics, and Scopes								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
2554	L1_Voltage_Interharmonic_H12	Float	Volt or %H1			✓	✓	✓
2556	L1_Voltage_Interharmonic_H13	Float	Volt or %H1			✓	✓	✓
2558	L1_Voltage_Interharmonic_H14	Float	Volt or %H1			✓	✓	✓
2560	L1_Voltage_Interharmonic_H15	Float	Volt or %H1			✓	✓	✓
2562	L1_Voltage_Interharmonic_H16	Float	Volt or %H1			✓	✓	✓
2564	L1_Voltage_Interharmonic_H17	Float	Volt or %H1			✓	✓	✓
2566	L1_Voltage_Interharmonic_H18	Float	Volt or %H1			✓	✓	✓
2568	L1_Voltage_Interharmonic_H19	Float	Volt or %H1			✓	✓	✓
2570	L1_Voltage_Interharmonic_H20	Float	Volt or %H1			✓	✓	✓
2572	L1_Voltage_Interharmonic_H21	Float	Volt or %H1			✓	✓	✓
2574	L1_Voltage_Interharmonic_H22	Float	Volt or %H1			✓	✓	✓
2576	L1_Voltage_Interharmonic_H23	Float	Volt or %H1			✓	✓	✓
2578	L1_Voltage_Interharmonic_H24	Float	Volt or %H1			✓	✓	✓
2580	L1_Voltage_Interharmonic_H25	Float	Volt or %H1			✓	✓	✓
2582	L1_Voltage_Interharmonic_H26	Float	Volt or %H1			✓	✓	✓
2584	L1_Voltage_Interharmonic_H27	Float	Volt or %H1			✓	✓	✓
2586	L1_Voltage_Interharmonic_H28	Float	Volt or %H1			✓	✓	✓
2588	L1_Voltage_Interharmonic_H29	Float	Volt or %H1			✓	✓	✓
2590	L1_Voltage_Interharmonic_H30	Float	Volt or %H1			✓	✓	✓
2592	L1_Voltage_Interharmonic_H31	Float	Volt or %H1			✓	✓	✓
2594	L1_Voltage_Interharmonic_H32	Float	Volt or %H1			✓	✓	✓
2596	L1_Voltage_Interharmonic_H33	Float	Volt or %H1			✓	✓	✓
2598	L1_Voltage_Interharmonic_H34	Float	Volt or %H1			✓	✓	✓
2600	L1_Voltage_Interharmonic_H35	Float	Volt or %H1			✓	✓	✓
2602	L1_Voltage_Interharmonic_H36	Float	Volt or %H1			✓	✓	✓
2604	L1_Voltage_Interharmonic_H37	Float	Volt or %H1			✓	✓	✓
2606	L1_Voltage_Interharmonic_H38	Float	Volt or %H1			✓	✓	✓
2608	L1_Voltage_Interharmonic_H39	Float	Volt or %H1			✓	✓	✓
2610	L1_Voltage_Interharmonic_H40	Float	Volt or %H1			✓	✓	✓
2612	L1_Voltage_Interharmonic_H41	Float	Volt or %H1			✓	✓	✓
2614	L1_Voltage_Interharmonic_H42	Float	Volt or %H1			✓	✓	✓
2616	L1_Voltage_Interharmonic_H43	Float	Volt or %H1			✓	✓	✓
2618	L1_Voltage_Interharmonic_H44	Float	Volt or %H1			✓	✓	✓
2620	L1_Voltage_Interharmonic_H45	Float	Volt or %H1			✓	✓	✓
2622	L1_Voltage_Interharmonic_H46	Float	Volt or %H1			✓	✓	✓
2624	L1_Voltage_Interharmonic_H47	Float	Volt or %H1			✓	✓	✓
2626	L1_Voltage_Interharmonic_H48	Float	Volt or %H1			✓	✓	✓
2628	L1_Voltage_Interharmonic_H49	Float	Volt or %H1			✓	✓	✓
2630	L1_Voltage_Interharmonic_H50	Float	Volt or %H1			✓	✓	✓
2632	L2_Voltage_Interharmonic_H1	Float	Volt			✓	✓	✓
2634	L2_Voltage_Interharmonic_H2	Float	Volt or %H1	Unit is function of configuration tag in PQube 3. See register 1028		✓	✓	✓
2636	L2_Voltage_Interharmonic_H3	Float	Volt or %H1			✓	✓	✓
2638	L2_Voltage_Interharmonic_H4	Float	Volt or %H1			✓	✓	✓
2640	L2_Voltage_Interharmonic_H5	Float	Volt or %H1			✓	✓	✓
2642	L2_Voltage_Interharmonic_H6	Float	Volt or %H1			✓	✓	✓
2644	L2_Voltage_Interharmonic_H7	Float	Volt or %H1			✓	✓	✓
2646	L2_Voltage_Interharmonic_H8	Float	Volt or %H1			✓	✓	✓
2648	L2_Voltage_Interharmonic_H9	Float	Volt or %H1			✓	✓	✓
2650	L2_Voltage_Interharmonic_H10	Float	Volt or %H1			✓	✓	✓
2652	L2_Voltage_Interharmonic_H11	Float	Volt or %H1			✓	✓	✓
2654	L2_Voltage_Interharmonic_H12	Float	Volt or %H1			✓	✓	✓
2656	L2_Voltage_Interharmonic_H13	Float	Volt or %H1			✓	✓	✓
2658	L2_Voltage_Interharmonic_H14	Float	Volt or %H1			✓	✓	✓
2660	L2_Voltage_Interharmonic_H15	Float	Volt or %H1			✓	✓	✓
2662	L2_Voltage_Interharmonic_H16	Float	Volt or %H1			✓	✓	✓
2664	L2_Voltage_Interharmonic_H17	Float	Volt or %H1			✓	✓	✓
2666	L2_Voltage_Interharmonic_H18	Float	Volt or %H1			✓	✓	✓
2668	L2_Voltage_Interharmonic_H19	Float	Volt or %H1			✓	✓	✓
2670	L2_Voltage_Interharmonic_H20	Float	Volt or %H1			✓	✓	✓
2672	L2_Voltage_Interharmonic_H21	Float	Volt or %H1			✓	✓	✓
2674	L2_Voltage_Interharmonic_H22	Float	Volt or %H1			✓	✓	✓
2676	L2_Voltage_Interharmonic_H23	Float	Volt or %H1			✓	✓	✓
2678	L2_Voltage_Interharmonic_H24	Float	Volt or %H1			✓	✓	✓
2680	L2_Voltage_Interharmonic_H25	Float	Volt or %H1			✓	✓	✓



Voltages, Harmonics, and Scopes								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
2682	L2_Voltage_Interharmonic_H26	Float	Volt or %H1			✓	✓	✓
2684	L2_Voltage_Interharmonic_H27	Float	Volt or %H1			✓	✓	✓
2686	L2_Voltage_Interharmonic_H28	Float	Volt or %H1			✓	✓	✓
2688	L2_Voltage_Interharmonic_H29	Float	Volt or %H1			✓	✓	✓
2690	L2_Voltage_Interharmonic_H30	Float	Volt or %H1			✓	✓	✓
2692	L2_Voltage_Interharmonic_H31	Float	Volt or %H1			✓	✓	✓
2694	L2_Voltage_Interharmonic_H32	Float	Volt or %H1			✓	✓	✓
2696	L2_Voltage_Interharmonic_H33	Float	Volt or %H1			✓	✓	✓
2698	L2_Voltage_Interharmonic_H34	Float	Volt or %H1			✓	✓	✓
2700	L2_Voltage_Interharmonic_H35	Float	Volt or %H1			✓	✓	✓
2702	L2_Voltage_Interharmonic_H36	Float	Volt or %H1			✓	✓	✓
2704	L2_Voltage_Interharmonic_H37	Float	Volt or %H1			✓	✓	✓
2706	L2_Voltage_Interharmonic_H38	Float	Volt or %H1			✓	✓	✓
2708	L2_Voltage_Interharmonic_H39	Float	Volt or %H1			✓	✓	✓
2710	L2_Voltage_Interharmonic_H40	Float	Volt or %H1			✓	✓	✓
2712	L2_Voltage_Interharmonic_H41	Float	Volt or %H1			✓	✓	✓
2714	L2_Voltage_Interharmonic_H42	Float	Volt or %H1			✓	✓	✓
2716	L2_Voltage_Interharmonic_H43	Float	Volt or %H1			✓	✓	✓
2718	L2_Voltage_Interharmonic_H44	Float	Volt or %H1			✓	✓	✓
2720	L2_Voltage_Interharmonic_H45	Float	Volt or %H1			✓	✓	✓
2722	L2_Voltage_Interharmonic_H46	Float	Volt or %H1			✓	✓	✓
2724	L2_Voltage_Interharmonic_H47	Float	Volt or %H1			✓	✓	✓
2726	L2_Voltage_Interharmonic_H48	Float	Volt or %H1			✓	✓	✓
2728	L2_Voltage_Interharmonic_H49	Float	Volt or %H1			✓	✓	✓
2730	L2_Voltage_Interharmonic_H50	Float	Volt or %H1			✓	✓	✓
2732	L3_Voltage_Interharmonic_H1	Float	Volt			✓	✓	✓
2734	L3_Voltage_Interharmonic_H2	Float	Volt or %H1	Unit is function of configuration tag in PQube 3. See register 1028		✓	✓	✓
2736	L3_Voltage_Interharmonic_H3	Float	Volt or %H1			✓	✓	✓
2738	L3_Voltage_Interharmonic_H4	Float	Volt or %H1			✓	✓	✓
2740	L3_Voltage_Interharmonic_H5	Float	Volt or %H1			✓	✓	✓
2742	L3_Voltage_Interharmonic_H6	Float	Volt or %H1			✓	✓	✓
2744	L3_Voltage_Interharmonic_H7	Float	Volt or %H1			✓	✓	✓
2746	L3_Voltage_Interharmonic_H8	Float	Volt or %H1			✓	✓	✓
2748	L3_Voltage_Interharmonic_H9	Float	Volt or %H1			✓	✓	✓
2750	L3_Voltage_Interharmonic_H10	Float	Volt or %H1			✓	✓	✓
2752	L3_Voltage_Interharmonic_H11	Float	Volt or %H1			✓	✓	✓
2754	L3_Voltage_Interharmonic_H12	Float	Volt or %H1			✓	✓	✓
2756	L3_Voltage_Interharmonic_H13	Float	Volt or %H1			✓	✓	✓
2758	L3_Voltage_Interharmonic_H14	Float	Volt or %H1			✓	✓	✓
2760	L3_Voltage_Interharmonic_H15	Float	Volt or %H1			✓	✓	✓
2762	L3_Voltage_Interharmonic_H16	Float	Volt or %H1			✓	✓	✓
2764	L3_Voltage_Interharmonic_H17	Float	Volt or %H1			✓	✓	✓
2766	L3_Voltage_Interharmonic_H18	Float	Volt or %H1			✓	✓	✓
2768	L3_Voltage_Interharmonic_H19	Float	Volt or %H1			✓	✓	✓
2770	L3_Voltage_Interharmonic_H20	Float	Volt or %H1			✓	✓	✓
2772	L3_Voltage_Interharmonic_H21	Float	Volt or %H1			✓	✓	✓
2774	L3_Voltage_Interharmonic_H22	Float	Volt or %H1			✓	✓	✓
2776	L3_Voltage_Interharmonic_H23	Float	Volt or %H1			✓	✓	✓
2778	L3_Voltage_Interharmonic_H24	Float	Volt or %H1			✓	✓	✓
2780	L3_Voltage_Interharmonic_H25	Float	Volt or %H1			✓	✓	✓
2782	L3_Voltage_Interharmonic_H26	Float	Volt or %H1			✓	✓	✓
2784	L3_Voltage_Interharmonic_H27	Float	Volt or %H1			✓	✓	✓
2786	L3_Voltage_Interharmonic_H28	Float	Volt or %H1			✓	✓	✓
2788	L3_Voltage_Interharmonic_H29	Float	Volt or %H1			✓	✓	✓
2790	L3_Voltage_Interharmonic_H30	Float	Volt or %H1			✓	✓	✓
2792	L3_Voltage_Interharmonic_H31	Float	Volt or %H1			✓	✓	✓
2794	L3_Voltage_Interharmonic_H32	Float	Volt or %H1			✓	✓	✓
2796	L3_Voltage_Interharmonic_H33	Float	Volt or %H1			✓	✓	✓
2798	L3_Voltage_Interharmonic_H34	Float	Volt or %H1			✓	✓	✓
2800	L3_Voltage_Interharmonic_H35	Float	Volt or %H1			✓	✓	✓
2802	L3_Voltage_Interharmonic_H36	Float	Volt or %H1			✓	✓	✓
2804	L3_Voltage_Interharmonic_H37	Float	Volt or %H1			✓	✓	✓
2806	L3_Voltage_Interharmonic_H38	Float	Volt or %H1			✓	✓	✓
2808	L3_Voltage_Interharmonic_H39	Float	Volt or %H1			✓	✓	✓



Voltages, Harmonics, and Scopes								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
2810	L3_Voltage_Interharmonic_H40	Float	Volt or %H1			✓	✓	✓
2812	L3_Voltage_Interharmonic_H41	Float	Volt or %H1			✓	✓	✓
2814	L3_Voltage_Interharmonic_H42	Float	Volt or %H1			✓	✓	✓
2816	L3_Voltage_Interharmonic_H43	Float	Volt or %H1			✓	✓	✓
2818	L3_Voltage_Interharmonic_H44	Float	Volt or %H1			✓	✓	✓
2820	L3_Voltage_Interharmonic_H45	Float	Volt or %H1			✓	✓	✓
2822	L3_Voltage_Interharmonic_H46	Float	Volt or %H1			✓	✓	✓
2824	L3_Voltage_Interharmonic_H47	Float	Volt or %H1			✓	✓	✓
2826	L3_Voltage_Interharmonic_H48	Float	Volt or %H1			✓	✓	✓
2828	L3_Voltage_Interharmonic_H49	Float	Volt or %H1			✓	✓	✓
2830	L3_Voltage_Interharmonic_H50	Float	Volt or %H1			✓	✓	✓
2832	L1_THD	Float	Volt or %			✓	✓	✓
2834	L2_THD	Float	Volt or %			✓	✓	✓
2836	L3_THD	Float	Volt or %			✓	✓	✓
2838	Unbalance_V_Negative_Sequence	Float	%			✓	✓	✓
2840	Unbalance_V_Zero_Sequence	Float	%			✓	✓	✓
2842	Flicker_Pinst_L1	Float	-			✓	✓	✓
2844	Flicker_Pinst_L2	Float	-			✓	✓	✓
2846	Flicker_Pinst_L3	Float	-			✓	✓	✓
2848	Flicker_Pst_L1	Float	-			✓	✓	✓
2850	Flicker_Pst_L2	Float	-			✓	✓	✓
2852	Flicker_Pst_L3	Float	-			✓	✓	✓
2854	Flicker_Plt_L1	Float	-			✓	✓	✓
2856	Flicker_Plt_L2	Float	-			✓	✓	✓
2858	Flicker_Plt_L3	Float	-			✓	✓	✓

3.4 PQube Currents Bank (Offset 0x4000)

This register bank focuses on phase currents and harmonics. **It is new for the PQube 3.**

Currents, Powers, and Scopes

Currents, Powers, and Scopes								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
4000	Current I 1	Float	Amps(RMS)			✓	✓	
4002	Current I-2	Float	Amps(RMS)			✓	✓	
4004	Current L3	Float	Amps(RMS)			✓	✓	
4006	Current LN	Float	Amps(RMS)			✓	✓	
4008	Current LE	Float	Amps(RMS)			✓	✓	
4010	Current L6	Float	Amps(RMS)			✓	✓	
4012	Current L7	Float	Amps(RMS)			✓	✓	
4014	Current L8	Float	Amps(RMS)			✓	✓	
4016	Fundamental L1 Current	Float	Amps(RMS)			✓	✓	
4018	Fundamental L2 Current	Float	Amps(RMS)			✓	✓	
4020	Fundamental L3 Current	Float	Amps(RMS)			✓	✓	
4022	Fundamental L1 Current Angle	Float	Degree			✓	✓	
4024	Fundamental L2 Current Angle	Float	Degree			✓	✓	
4026	Fundamental L3 Current Angle	Float	Degree			✓	✓	
4028	L1_Current_Scope_Point0	Float	Amps	Point #0 of 32 in the 'one cycle' wave form for L1-N (single phase and 3-phase WYE) or L-L (3-phase DELTA)		✓	✓	
4030	L1_Current_Scope_Point1	Float	Amps			✓	✓	
4032	L1_Current_Scope_Point2	Float	Amps			✓	✓	



Currents, Powers, and Scopes							
Offset	Register	Format	Units	Comments	PQube		
					CL	3	3v
4034	L1 Current Scope Point3	Float	Amps			✓	✓
4036	L1 Current Scope Point4	Float	Amps			✓	✓
4038	L1 Current Scope Point5	Float	Amps			✓	✓
4040	L1 Current Scope Point6	Float	Amps			✓	✓
4042	L1 Current Scope Point7	Float	Amps			✓	✓
4044	L1 Current Scope Point8	Float	Amps			✓	✓
4046	L1 Current Scope Point9	Float	Amps			✓	✓
4048	L1 Current Scope Point10	Float	Amps			✓	✓
4050	L1 Current Scope Point11	Float	Amps			✓	✓
4052	L1 Current Scope Point12	Float	Amps			✓	✓
4054	L1 Current Scope Point13	Float	Amps			✓	✓
4056	L1 Current Scope Point14	Float	Amps			✓	✓
4058	L1 Current Scope Point15	Float	Amps			✓	✓
4060	L1 Current Scope Point16	Float	Amps			✓	✓
4062	L1 Current Scope Point17	Float	Amps			✓	✓
4064	L1 Current Scope Point18	Float	Amps			✓	✓
4066	L1 Current Scope Point19	Float	Amps			✓	✓
4068	L1 Current Scope Point20	Float	Amps			✓	✓
4070	L1 Current Scope Point21	Float	Amps			✓	✓
4072	L1 Current Scope Point22	Float	Amps			✓	✓
4074	L1 Current Scope Point23	Float	Amps			✓	✓
4076	L1 Current Scope Point24	Float	Amps			✓	✓
4078	L1 Current Scope Point25	Float	Amps			✓	✓
4080	L1 Current Scope Point26	Float	Amps			✓	✓
4082	L1 Current Scope Point27	Float	Amps			✓	✓
4084	L1 Current Scope Point28	Float	Amps			✓	✓
4086	L1 Current Scope Point29	Float	Amps			✓	✓
4088	L1 Current Scope Point30	Float	Amps			✓	✓
4090	L1 Current Scope Point31	Float	Amps			✓	✓
4092	L2 Current Scope Point0	Float	Amps	Point #0 of 32 in the 'one cycle' wave form for L2-N (single phase and 3-phase WYE) or L-L (3-phase DELTA)		✓	✓
4094	L2 Current Scope Point1	Float	Amps			✓	✓
4096	L2 Current Scope Point2	Float	Amps			✓	✓
4098	L2 Current Scope Point3	Float	Amps			✓	✓
4100	L2 Current Scope Point4	Float	Amps			✓	✓
4102	L2 Current Scope Point5	Float	Amps			✓	✓
4104	L2 Current Scope Point6	Float	Amps			✓	✓
4106	L2 Current Scope Point7	Float	Amps			✓	✓
4108	L2 Current Scope Point8	Float	Amps			✓	✓
4110	L2 Current Scope Point9	Float	Amps			✓	✓
4112	L2 Current Scope Point10	Float	Amps			✓	✓
4114	L2 Current Scope Point11	Float	Amps			✓	✓
4116	L2 Current Scope Point12	Float	Amps			✓	✓
4118	L2 Current Scope Point13	Float	Amps			✓	✓
4120	L2 Current Scope Point14	Float	Amps			✓	✓
4122	L2 Current Scope Point15	Float	Amps			✓	✓
4124	L2 Current Scope Point16	Float	Amps			✓	✓
4126	L2 Current Scope Point17	Float	Amps			✓	✓
4128	L2 Current Scope Point18	Float	Amps			✓	✓
4130	L2 Current Scope Point19	Float	Amps			✓	✓
4132	L2 Current Scope Point20	Float	Amps			✓	✓
4134	L2 Current Scope Point21	Float	Amps			✓	✓
4136	L2 Current Scope Point22	Float	Amps			✓	✓
4138	L2 Current Scope Point23	Float	Amps			✓	✓
4140	L2 Current Scope Point24	Float	Amps			✓	✓
4142	L2 Current Scope Point25	Float	Amps			✓	✓
4144	L2 Current Scope Point26	Float	Amps			✓	✓
4146	L2 Current Scope Point27	Float	Amps			✓	✓
4148	L2 Current Scope Point28	Float	Amps			✓	✓
4150	L2 Current Scope Point29	Float	Amps			✓	✓
4152	L2 Current Scope Point30	Float	Amps			✓	✓
4154	L2 Current Scope Point31	Float	Amps			✓	✓
4156	L3 Current Scope Point0	Float	Amps	Point #0 of 32 in the 'one cycle' wave form for L3-N (single phase and 3-phase WYE) or L-L (3-phase DELTA)		✓	✓
4158	L3 Current Scope Point1	Float	Amps			✓	✓
4160	L3 Current Scope Point2	Float	Amps			✓	✓
4162	L3 Current Scope Point3	Float	Amps			✓	✓



Currents, Powers, and Scopes							
Offset	Register	Format	Units	Comments	PQube		
					CL	3	3e 3v
4164	L3 Current Scope Point4	Float	Amps			✓	✓
4166	L3 Current Scope Point5	Float	Amps			✓	✓
4168	L3 Current Scope Point6	Float	Amps			✓	✓
4170	L3 Current Scope Point7	Float	Amps			✓	✓
4172	L3 Current Scope Point8	Float	Amps			✓	✓
4174	L3 Current Scope Point9	Float	Amps			✓	✓
4176	L3 Current Scope Point10	Float	Amps			✓	✓
4178	L3 Current Scope Point11	Float	Amps			✓	✓
4180	L3 Current Scope Point12	Float	Amps			✓	✓
4182	L3 Current Scope Point13	Float	Amps			✓	✓
4184	L3 Current Scope Point14	Float	Amps			✓	✓
4186	L3 Current Scope Point15	Float	Amps			✓	✓
4188	L3 Current Scope Point16	Float	Amps			✓	✓
4190	L3 Current Scope Point17	Float	Amps			✓	✓
4192	L3 Current Scope Point18	Float	Amps			✓	✓
4194	L3 Current Scope Point19	Float	Amps			✓	✓
4196	L3 Current Scope Point20	Float	Amps			✓	✓
4198	L3 Current Scope Point21	Float	Amps			✓	✓
4200	L3 Current Scope Point22	Float	Amps			✓	✓
4202	L3 Current Scope Point23	Float	Amps			✓	✓
4204	L3 Current Scope Point24	Float	Amps			✓	✓
4206	L3 Current Scope Point25	Float	Amps			✓	✓
4208	L3 Current Scope Point26	Float	Amps			✓	✓
4210	L3 Current Scope Point27	Float	Amps			✓	✓
4212	L3 Current Scope Point28	Float	Amps			✓	✓
4214	L3 Current Scope Point29	Float	Amps			✓	✓
4216	L3 Current Scope Point30	Float	Amps			✓	✓
4218	L3 Current Scope Point31	Float	Amps			✓	✓
4220	L1 Amps 10 12	Float	Amps (RMS)			✓	✓
4222	L2 Amps 10 12	Float	Amps (RMS)			✓	✓
4224	L3 Amps 10 12	Float	Amps (RMS)			✓	✓
4226	L1 Current Harmonic H1	Float	Amps			✓	✓
4228	L1 Current Harmonic H2	Float	Amps			✓	✓
4230	L1 Current Harmonic H3	Float	Amps			✓	✓
4232	L1 Current Harmonic H4	Float	Amps			✓	✓
4234	L1 Current Harmonic H5	Float	Amps			✓	✓
4236	L1 Current Harmonic H6	Float	Amps			✓	✓
4238	L1 Current Harmonic H7	Float	Amps			✓	✓
4240	L1 Current Harmonic H8	Float	Amps			✓	✓
4242	L1 Current Harmonic H9	Float	Amps			✓	✓
4244	L1 Current Harmonic H10	Float	Amps			✓	✓
4246	L1 Current Harmonic H11	Float	Amps			✓	✓
4248	L1 Current Harmonic H12	Float	Amps			✓	✓
4250	L1 Current Harmonic H13	Float	Amps			✓	✓
4252	L1 Current Harmonic H14	Float	Amps			✓	✓
4254	L1 Current Harmonic H15	Float	Amps			✓	✓
4256	L1 Current Harmonic H16	Float	Amps			✓	✓
4258	L1 Current Harmonic H17	Float	Amps			✓	✓
4260	L1 Current Harmonic H18	Float	Amps			✓	✓
4262	L1 Current Harmonic H19	Float	Amps			✓	✓
4264	L1 Current Harmonic H20	Float	Amps			✓	✓
4266	L1 Current Harmonic H21	Float	Amps			✓	✓
4268	L1 Current Harmonic H22	Float	Amps			✓	✓
4270	L1 Current Harmonic H23	Float	Amps			✓	✓
4272	L1 Current Harmonic H24	Float	Amps			✓	✓
4274	L1 Current Harmonic H25	Float	Amps			✓	✓
4276	L1 Current Harmonic H26	Float	Amps			✓	✓
4278	L1 Current Harmonic H27	Float	Amps			✓	✓
4280	L1 Current Harmonic H28	Float	Amps			✓	✓
4282	L1 Current Harmonic H29	Float	Amps			✓	✓
4284	L1 Current Harmonic H30	Float	Amps			✓	✓
4286	L1 Current Harmonic H31	Float	Amps			✓	✓
4288	L1 Current Harmonic H32	Float	Amps			✓	✓
4290	L1 Current Harmonic H33	Float	Amps			✓	✓
4292	L1 Current Harmonic H34	Float	Amps			✓	✓
4294	L1 Current Harmonic H35	Float	Amps			✓	✓
4296	L1 Current Harmonic H36	Float	Amps			✓	✓
4298	L1 Current Harmonic H37	Float	Amps			✓	✓
4300	L1 Current Harmonic H38	Float	Amps			✓	✓
4302	L1 Current Harmonic H39	Float	Amps			✓	✓



Currents, Powers, and Scopes								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
4304	L1 Current Harmonic H40	Float	Amps			✓	✓	
4306	L1 Current Harmonic H41	Float	Amps			✓	✓	
4308	L1 Current Harmonic H42	Float	Amps			✓	✓	
4310	L1 Current Harmonic H43	Float	Amps			✓	✓	
4312	L1 Current Harmonic H44	Float	Amps			✓	✓	
4314	L1 Current Harmonic H45	Float	Amps			✓	✓	
4316	L1 Current Harmonic H46	Float	Amps			✓	✓	
4318	L1 Current Harmonic H47	Float	Amps			✓	✓	
4320	L1 Current Harmonic H48	Float	Amps			✓	✓	
4322	L1 Current Harmonic H49	Float	Amps			✓	✓	
4324	L1 Current Harmonic H50	Float	Amps			✓	✓	
4326	L2 Current Harmonic H1	Float	Amps			✓	✓	
4328	L2 Current Harmonic H2	Float	Amps			✓	✓	
4330	L2 Current Harmonic H3	Float	Amps			✓	✓	
4332	L2 Current Harmonic H4	Float	Amps			✓	✓	
4334	L2 Current Harmonic H5	Float	Amps			✓	✓	
4336	L2 Current Harmonic H6	Float	Amps			✓	✓	
4338	L2 Current Harmonic H7	Float	Amps			✓	✓	
4340	L2 Current Harmonic H8	Float	Amps			✓	✓	
4342	L2 Current Harmonic H9	Float	Amps			✓	✓	
4344	L2 Current Harmonic H10	Float	Amps			✓	✓	
4346	L2 Current Harmonic H11	Float	Amps			✓	✓	
4348	L2 Current Harmonic H12	Float	Amps			✓	✓	
4350	L2 Current Harmonic H13	Float	Amps			✓	✓	
4352	L2 Current Harmonic H14	Float	Amps			✓	✓	
4354	L2 Current Harmonic H15	Float	Amps			✓	✓	
4356	L2 Current Harmonic H16	Float	Amps			✓	✓	
4358	L2 Current Harmonic H17	Float	Amps			✓	✓	
4360	L2 Current Harmonic H18	Float	Amps			✓	✓	
4362	L2 Current Harmonic H19	Float	Amps			✓	✓	
4364	L2 Current Harmonic H20	Float	Amps			✓	✓	
4366	L2 Current Harmonic H21	Float	Amps			✓	✓	
4368	L2 Current Harmonic H22	Float	Amps			✓	✓	
4370	L2 Current Harmonic H23	Float	Amps			✓	✓	
4372	L2 Current Harmonic H24	Float	Amps			✓	✓	
4374	L2 Current Harmonic H25	Float	Amps			✓	✓	
4376	L2 Current Harmonic H26	Float	Amps			✓	✓	
4378	L2 Current Harmonic H27	Float	Amps			✓	✓	
4380	L2 Current Harmonic H28	Float	Amps			✓	✓	
4382	L2 Current Harmonic H29	Float	Amps			✓	✓	
4384	L2 Current Harmonic H30	Float	Amps			✓	✓	
4386	L2 Current Harmonic H31	Float	Amps			✓	✓	
4388	L2 Current Harmonic H32	Float	Amps			✓	✓	
4390	L2 Current Harmonic H33	Float	Amps			✓	✓	
4392	L2 Current Harmonic H34	Float	Amps			✓	✓	
4394	L2 Current Harmonic H35	Float	Amps			✓	✓	
4396	L2 Current Harmonic H36	Float	Amps			✓	✓	
4398	L2 Current Harmonic H37	Float	Amps			✓	✓	
4400	L2 Current Harmonic H38	Float	Amps			✓	✓	
4402	L2 Current Harmonic H39	Float	Amps			✓	✓	
4404	L2 Current Harmonic H40	Float	Amps			✓	✓	
4406	L2 Current Harmonic H41	Float	Amps			✓	✓	
4408	L2 Current Harmonic H42	Float	Amps			✓	✓	
4410	L2 Current Harmonic H43	Float	Amps			✓	✓	
4412	L2 Current Harmonic H44	Float	Amps			✓	✓	
4414	L2 Current Harmonic H45	Float	Amps			✓	✓	
4416	L2 Current Harmonic H46	Float	Amps			✓	✓	
4418	L2 Current Harmonic H47	Float	Amps			✓	✓	
4420	L2 Current Harmonic H48	Float	Amps			✓	✓	
4422	L2 Current Harmonic H49	Float	Amps			✓	✓	
4424	L2 Current Harmonic H50	Float	Amps			✓	✓	
4426	L3 Current Harmonic H1	Float	Amps			✓	✓	
4428	L3 Current Harmonic H2	Float	Amps			✓	✓	
4430	L3 Current Harmonic H3	Float	Amps			✓	✓	
4432	L3 Current Harmonic H4	Float	Amps			✓	✓	
4434	L3 Current Harmonic H5	Float	Amps			✓	✓	
4436	L3 Current Harmonic H6	Float	Amps			✓	✓	
4438	L3 Current Harmonic H7	Float	Amps			✓	✓	
4440	L3 Current Harmonic H8	Float	Amps			✓	✓	
4442	L3 Current Harmonic H9	Float	Amps			✓	✓	



Currents, Powers, and Scopes								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
4444	L3 Current Harmonic H10	Float	Amps			✓	✓	
4446	L3 Current Harmonic H11	Float	Amps			✓	✓	
4448	L3 Current Harmonic H12	Float	Amps			✓	✓	
4450	L3 Current Harmonic H13	Float	Amps			✓	✓	
4452	L3 Current Harmonic H14	Float	Amps			✓	✓	
4454	L3 Current Harmonic H15	Float	Amps			✓	✓	
4456	L3 Current Harmonic H16	Float	Amps			✓	✓	
4458	L3 Current Harmonic H17	Float	Amps			✓	✓	
4460	L3 Current Harmonic H18	Float	Amps			✓	✓	
4462	L3 Current Harmonic H19	Float	Amps			✓	✓	
4464	L3 Current Harmonic H20	Float	Amps			✓	✓	
4466	L3 Current Harmonic H21	Float	Amps			✓	✓	
4468	L3 Current Harmonic H22	Float	Amps			✓	✓	
4470	L3 Current Harmonic H23	Float	Amps			✓	✓	
4472	L3 Current Harmonic H24	Float	Amps			✓	✓	
4474	L3 Current Harmonic H25	Float	Amps			✓	✓	
4476	L3 Current Harmonic H26	Float	Amps			✓	✓	
4478	L3 Current Harmonic H27	Float	Amps			✓	✓	
4480	L3 Current Harmonic H28	Float	Amps			✓	✓	
4482	L3 Current Harmonic H29	Float	Amps			✓	✓	
4484	L3 Current Harmonic H30	Float	Amps			✓	✓	
4486	L3 Current Harmonic H31	Float	Amps			✓	✓	
4488	L3 Current Harmonic H32	Float	Amps			✓	✓	
4490	L3 Current Harmonic H33	Float	Amps			✓	✓	
4492	L3 Current Harmonic H34	Float	Amps			✓	✓	
4494	L3 Current Harmonic H35	Float	Amps			✓	✓	
4496	L3 Current Harmonic H36	Float	Amps			✓	✓	
4498	L3 Current Harmonic H37	Float	Amps			✓	✓	
4500	L3 Current Harmonic H38	Float	Amps			✓	✓	
4502	L3 Current Harmonic H39	Float	Amps			✓	✓	
4504	L3 Current Harmonic H40	Float	Amps			✓	✓	
4506	L3 Current Harmonic H41	Float	Amps			✓	✓	
4508	L3 Current Harmonic H42	Float	Amps			✓	✓	
4510	L3 Current Harmonic H43	Float	Amps			✓	✓	
4512	L3 Current Harmonic H44	Float	Amps			✓	✓	
4514	L3 Current Harmonic H45	Float	Amps			✓	✓	
4516	L3 Current Harmonic H46	Float	Amps			✓	✓	
4518	L3 Current Harmonic H47	Float	Amps			✓	✓	
4520	L3 Current Harmonic H48	Float	Amps			✓	✓	
4522	L3 Current Harmonic H49	Float	Amps			✓	✓	
4524	L3 Current Harmonic H50	Float	Amps			✓	✓	
4526	L1 Current Interharmonic H1	Float	Amps			✓	✓	
4528	L1 Current Interharmonic H2	Float	Amps			✓	✓	
4530	L1 Current Interharmonic H3	Float	Amps			✓	✓	
4532	L1 Current Interharmonic H4	Float	Amps			✓	✓	
4534	L1 Current Interharmonic H5	Float	Amps			✓	✓	
4536	L1 Current Interharmonic H6	Float	Amps			✓	✓	
4538	L1 Current Interharmonic H7	Float	Amps			✓	✓	
4540	L1 Current Interharmonic H8	Float	Amps			✓	✓	
4542	L1 Current Interharmonic H9	Float	Amps			✓	✓	
4544	L1 Current Interharmonic H10	Float	Amps			✓	✓	
4546	L1 Current Interharmonic H11	Float	Amps			✓	✓	
4548	L1 Current Interharmonic H12	Float	Amps			✓	✓	
4550	L1 Current Interharmonic H13	Float	Amps			✓	✓	
4552	L1 Current Interharmonic H14	Float	Amps			✓	✓	
4554	L1 Current Interharmonic H15	Float	Amps			✓	✓	
4556	L1 Current Interharmonic H16	Float	Amps			✓	✓	
4558	L1 Current Interharmonic H17	Float	Amps			✓	✓	
4560	L1 Current Interharmonic H18	Float	Amps			✓	✓	
4562	L1 Current Interharmonic H19	Float	Amps			✓	✓	
4564	L1 Current Interharmonic H20	Float	Amps			✓	✓	
4566	L1 Current Interharmonic H21	Float	Amps			✓	✓	
4568	L1 Current Interharmonic H22	Float	Amps			✓	✓	
4570	L1 Current Interharmonic H23	Float	Amps			✓	✓	
4572	L1 Current Interharmonic H24	Float	Amps			✓	✓	
4574	L1 Current Interharmonic H25	Float	Amps			✓	✓	
4576	L1 Current Interharmonic H26	Float	Amps			✓	✓	
4578	L1 Current Interharmonic H27	Float	Amps			✓	✓	
4580	L1 Current Interharmonic H28	Float	Amps			✓	✓	
4582	L1 Current Interharmonic H29	Float	Amps			✓	✓	



Currents, Powers, and Scopes								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
4584	L1 Current Interharmonic H30	Float	Amps			✓	✓	
4586	L1 Current Interharmonic H31	Float	Amps			✓	✓	
4588	L1 Current Interharmonic H32	Float	Amps			✓	✓	
4590	L1 Current Interharmonic H33	Float	Amps			✓	✓	
4592	L1 Current Interharmonic H34	Float	Amps			✓	✓	
4594	L1 Current Interharmonic H35	Float	Amps			✓	✓	
4596	L1 Current Interharmonic H36	Float	Amps			✓	✓	
4598	L1 Current Interharmonic H37	Float	Amps			✓	✓	
4600	L1 Current Interharmonic H38	Float	Amps			✓	✓	
4602	L1 Current Interharmonic H39	Float	Amps			✓	✓	
4604	L1 Current Interharmonic H40	Float	Amps			✓	✓	
4606	L1 Current Interharmonic H41	Float	Amps			✓	✓	
4608	L1 Current Interharmonic H42	Float	Amps			✓	✓	
4610	L1 Current Interharmonic H43	Float	Amps			✓	✓	
4612	L1 Current Interharmonic H44	Float	Amps			✓	✓	
4614	L1 Current Interharmonic H45	Float	Amps			✓	✓	
4616	L1 Current Interharmonic H46	Float	Amps			✓	✓	
4618	L1 Current Interharmonic H47	Float	Amps			✓	✓	
4620	L1 Current Interharmonic H48	Float	Amps			✓	✓	
4622	L1 Current Interharmonic H49	Float	Amps			✓	✓	
4624	L1 Current Interharmonic H50	Float	Amps			✓	✓	
4626	L2 Current Interharmonic H1	Float	Amps			✓	✓	
4628	L2 Current Interharmonic H2	Float	Amps			✓	✓	
4630	L2 Current Interharmonic H3	Float	Amps			✓	✓	
4632	L2 Current Interharmonic H4	Float	Amps			✓	✓	
4634	L2 Current Interharmonic H5	Float	Amps			✓	✓	
4636	L2 Current Interharmonic H6	Float	Amps			✓	✓	
4638	L2 Current Interharmonic H7	Float	Amps			✓	✓	
4640	L2 Current Interharmonic H8	Float	Amps			✓	✓	
4642	L2 Current Interharmonic H9	Float	Amps			✓	✓	
4644	L2 Current Interharmonic H10	Float	Amps			✓	✓	
4646	L2 Current Interharmonic H11	Float	Amps			✓	✓	
4648	L2 Current Interharmonic H12	Float	Amps			✓	✓	
4650	L2 Current Interharmonic H13	Float	Amps			✓	✓	
4652	L2 Current Interharmonic H14	Float	Amps			✓	✓	
4654	L2 Current Interharmonic H15	Float	Amps			✓	✓	
4656	L2 Current Interharmonic H16	Float	Amps			✓	✓	
4658	L2 Current Interharmonic H17	Float	Amps			✓	✓	
4660	L2 Current Interharmonic H18	Float	Amps			✓	✓	
4662	L2 Current Interharmonic H19	Float	Amps			✓	✓	
4664	L2 Current Interharmonic H20	Float	Amps			✓	✓	
4666	L2 Current Interharmonic H21	Float	Amps			✓	✓	
4668	L2 Current Interharmonic H22	Float	Amps			✓	✓	
4670	L2 Current Interharmonic H23	Float	Amps			✓	✓	
4672	L2 Current Interharmonic H24	Float	Amps			✓	✓	
4674	L2 Current Interharmonic H25	Float	Amps			✓	✓	
4676	L2 Current Interharmonic H26	Float	Amps			✓	✓	
4678	L2 Current Interharmonic H27	Float	Amps			✓	✓	
4680	L2 Current Interharmonic H28	Float	Amps			✓	✓	
4682	L2 Current Interharmonic H29	Float	Amps			✓	✓	
4684	L2 Current Interharmonic H30	Float	Amps			✓	✓	
4686	L2 Current Interharmonic H31	Float	Amps			✓	✓	
4688	L2 Current Interharmonic H32	Float	Amps			✓	✓	
4690	L2 Current Interharmonic H33	Float	Amps			✓	✓	
4692	L2 Current Interharmonic H34	Float	Amps			✓	✓	
4694	L2 Current Interharmonic H35	Float	Amps			✓	✓	
4696	L2 Current Interharmonic H36	Float	Amps			✓	✓	
4698	L2 Current Interharmonic H37	Float	Amps			✓	✓	
4700	L2 Current Interharmonic H38	Float	Amps			✓	✓	
4702	L2 Current Interharmonic H39	Float	Amps			✓	✓	
4704	L2 Current Interharmonic H40	Float	Amps			✓	✓	
4706	L2 Current Interharmonic H41	Float	Amps			✓	✓	
4708	L2 Current Interharmonic H42	Float	Amps			✓	✓	
4710	L2 Current Interharmonic H43	Float	Amps			✓	✓	
4712	L2 Current Interharmonic H44	Float	Amps			✓	✓	
4714	L2 Current Interharmonic H45	Float	Amps			✓	✓	
4716	L2 Current Interharmonic H46	Float	Amps			✓	✓	
4718	L2 Current Interharmonic H47	Float	Amps			✓	✓	
4720	L2 Current Interharmonic H48	Float	Amps			✓	✓	
4722	L2 Current Interharmonic H49	Float	Amps			✓	✓	



Currents, Powers, and Scopes							
Offset	Register	Format	Units	Comments	PQube		
					CL	3	3e 3v
4724	L2 Current Interharmonic H50	Float	Amps			✓	✓
4726	L3 Current Interharmonic H1	Float	Amps			✓	✓
4728	L3 Current Interharmonic H2	Float	Amps			✓	✓
4730	L3 Current Interharmonic H3	Float	Amps			✓	✓
4732	L3 Current Interharmonic H4	Float	Amps			✓	✓
4734	L3 Current Interharmonic H5	Float	Amps			✓	✓
4736	L3 Current Interharmonic H6	Float	Amps			✓	✓
4738	L3 Current Interharmonic H7	Float	Amps			✓	✓
4740	L3 Current Interharmonic H8	Float	Amps			✓	✓
4742	L3 Current Interharmonic H9	Float	Amps			✓	✓
4744	L3 Current Interharmonic H10	Float	Amps			✓	✓
4746	L3 Current Interharmonic H11	Float	Amps			✓	✓
4748	L3 Current Interharmonic H12	Float	Amps			✓	✓
4750	L3 Current Interharmonic H13	Float	Amps			✓	✓
4752	L3 Current Interharmonic H14	Float	Amps			✓	✓
4754	L3 Current Interharmonic H15	Float	Amps			✓	✓
4756	L3 Current Interharmonic H16	Float	Amps			✓	✓
4758	L3 Current Interharmonic H17	Float	Amps			✓	✓
4760	L3 Current Interharmonic H18	Float	Amps			✓	✓
4762	L3 Current Interharmonic H19	Float	Amps			✓	✓
4764	L3 Current Interharmonic H20	Float	Amps			✓	✓
4766	L3 Current Interharmonic H21	Float	Amps			✓	✓
4768	L3 Current Interharmonic H22	Float	Amps			✓	✓
4770	L3 Current Interharmonic H23	Float	Amps			✓	✓
4772	L3 Current Interharmonic H24	Float	Amps			✓	✓
4774	L3 Current Interharmonic H25	Float	Amps			✓	✓
4776	L3 Current Interharmonic H26	Float	Amps			✓	✓
4778	L3 Current Interharmonic H27	Float	Amps			✓	✓
4780	L3 Current Interharmonic H28	Float	Amps			✓	✓
4782	L3 Current Interharmonic H29	Float	Amps			✓	✓
4784	L3 Current Interharmonic H30	Float	Amps			✓	✓
4786	L3 Current Interharmonic H31	Float	Amps			✓	✓
4788	L3 Current Interharmonic H32	Float	Amps			✓	✓
4790	L3 Current Interharmonic H33	Float	Amps			✓	✓
4792	L3 Current Interharmonic H34	Float	Amps			✓	✓
4794	L3 Current Interharmonic H35	Float	Amps			✓	✓
4796	L3 Current Interharmonic H36	Float	Amps			✓	✓
4798	L3 Current Interharmonic H37	Float	Amps			✓	✓
4800	L3 Current Interharmonic H38	Float	Amps			✓	✓
4802	L3 Current Interharmonic H39	Float	Amps			✓	✓
4804	L3 Current Interharmonic H40	Float	Amps			✓	✓
4806	L3 Current Interharmonic H41	Float	Amps			✓	✓
4808	L3 Current Interharmonic H42	Float	Amps			✓	✓
4810	L3 Current Interharmonic H43	Float	Amps			✓	✓
4812	L3 Current Interharmonic H44	Float	Amps			✓	✓
4814	L3 Current Interharmonic H45	Float	Amps			✓	✓
4816	L3 Current Interharmonic H46	Float	Amps			✓	✓
4818	L3 Current Interharmonic H47	Float	Amps			✓	✓
4820	L3 Current Interharmonic H48	Float	Amps			✓	✓
4822	L3 Current Interharmonic H49	Float	Amps			✓	✓
4824	L3 Current Interharmonic H50	Float	Amps			✓	✓
4826	L1 TDD	Float	Amps			✓	✓
4828	L2 TDD	Float	Amps			✓	✓
4830	L3 TDD	Float	Amps			✓	✓
4832	Unbalance A Negative Sequence	Float	%			✓	✓
4834	Unbalance A Zero Sequence	Float	%			✓	✓
4836	Total Power	Float	Watt	For 3-phase load on current channels 1-3 (Only functions when PQube is configured for 3-phase.)		✓	✓
4838	L1 Power	Float	Watt	For load on current channel 1		✓	✓
4840	L2 Power	Float	Watt	For load on current channel 2		✓	✓
4842	L3 Power	Float	Watt	For load on current channel 3		✓	✓
4844	Total Reactive Power	Float	VAR	For 3-phase load on current channels 1-3		✓	✓
4846	L1 Reactive Power	Float	VAR	For load on current channel 1		✓	✓
4848	L2 Reactive Power	Float	VAR	For load on current channel 2		✓	✓
4850	L3 Reactive Power	Float	VAR	For load on current channel 3		✓	✓
4852	Total Apparent Power	Float	VA	For 3-phase load on current channels 1-3		✓	✓
4854	L1 Apparent Power	Float	VA	For load on current channel 1		✓	✓
4856	L2 Apparent Power	Float	VA	For load on current channel 2		✓	✓
4858	L3 Apparent Power	Float	VA	For load on current channel 3		✓	✓
4860	Total True Power Factor	Float	-	For 3-phase load on current channels 1-3		✓	✓



Currents, Powers, and Scopes							
Offset	Register	Format	Units	Comments	PQube		
					CL	3	3e 3v
4862	L1 True Power Factor	Float	-	For load on current channel 1		✓	✓
4864	L2 True Power Factor	Float	-	For load on current channel 2		✓	✓
4866	L3 True Power Factor	Float	-	For load on current channel 3		✓	✓
4868	Total Reactive Energy 1	Float	VARh	For 3-phase load on current channels 1-3		✓	✓
4870	Reactive Energy 1	Float	VARh	For load on current channel 1		✓	✓
4872	Reactive Energy 2	Float	VARh	For load on current channel 2		✓	✓
4874	Reactive Energy 3	Float	VARh	For load on current channel 3		✓	✓
4876	Total Energy 1	Float	Wh	For 3-phase load on current channels 1-3		✓	✓
4878	Energy 1	Float	Wh	For load on current channel 1		✓	✓
4880	Energy 2	Float	Wh	For load on current channel 2		✓	✓
4882	Energy 3	Float	Wh	For load on current channel 3		✓	✓
4884	Total Apparent Energy 1	Float	VAh	For 3-phase load on current channels 1-3		✓	✓
4886	Apparent Energy 1	Float	VAh	For load on current channel 1		✓	✓
4888	Apparent Energy 2	Float	VAh	For load on current channel 2		✓	✓
4890	Apparent Energy 3	Float	VAh	For load on current channel 3		✓	✓
4892	Peak Apparent Power 1 Cycle	Float	VA			✓	✓
4894	Peak Apparent Power 1 Minute	Float	VA			✓	✓
4896	Peak Apparent Power N Minute	Float	VA	N defined in the PQube3 configuration		✓	✓
4898	Peak Power 1 Cycle	Float	Watt			✓	✓
4900	Peak Power 1 Minute	Float	Watt			✓	✓
4902	Peak Power N Minute	Float	Watt			✓	✓
4904	Peak Current 1 Cycle	Float	Amps			✓	✓
4906	Peak Current 1 Minute	Float	Amps			✓	✓
4908	Peak Current N Minute	Float	Amps			✓	✓
4910	Energy Reset Year	Float	-			✓	✓
4912	Energy Reset Month	Float	-			✓	✓
4914	Energy Reset Day	Float	-			✓	✓
4916	Peak Reset Year	Float	-			✓	✓
4918	Peak Reset Month	Float	-			✓	✓
4920	Peak Reset Day	Float	-			✓	✓
4922	Energy Positive	Float	Wh	For 3-phase load on current channels 1-3		✓	✓
4924	Energy 1 Positive	Float	Wh	For load on current channel 1		✓	✓
4926	Energy 2 Positive	Float	Wh	For load on current channel 2		✓	✓
4928	Energy 3 Positive	Float	Wh	For load on current channel 3		✓	✓
4930	Energy Negative	Float	Wh	For 3-phase load on current channels 1-3		✓	✓
4932	Energy 1 Negative	Float	Wh	For load on current channel 1		✓	✓
4934	Energy 2 Negative	Float	Wh	For load on current channel 2		✓	✓
4936	Energy 3 Negative	Float	Wh	For load on current channel 3		✓	✓
4938	Current L9	Float	Amps(RMS)				✓
4940	Current L10	Float	Amps(RMS)				✓
4942	Current L11	Float	Amps(RMS)				✓
4944	Current L12	Float	Amps(RMS)				✓
4946	Current L13	Float	Amps(RMS)				✓
4948	Current L14	Float	Amps(RMS)				✓
4950	L4 Power	Float	Watt	For load on current channel 4		✓	✓
4952	L5 Power	Float	Watt	For load on current channel 5		✓	✓
4954	L6 Power	Float	Watt	For load on current channel 6		✓	✓
4956	L7 Power	Float	Watt	For load on current channel 7		✓	✓
4958	L8 Power	Float	Watt	For load on current channel 8		✓	✓
4960	L9 Power	Float	Watt	For load on current channel 9			✓
4962	L10 Power	Float	Watt	For load on current channel 10			✓
4964	L11 Power	Float	Watt	For load on current channel 11			✓
4966	L12 Power	Float	Watt	For load on current channel 12			✓
4968	L13 Power	Float	Watt	For load on current channel 13			✓
4970	L14 Power	Float	Watt	For load on current channel 14			✓
4972	L4 Apparent Power	Float	VA	For load on current channel 4		✓	✓
4974	L5 Apparent Power	Float	VA	For load on current channel 5		✓	✓
4976	L6 Apparent Power	Float	VA	For load on current channel 6		✓	✓
4978	L7 Apparent Power	Float	VA	For load on current channel 7		✓	✓
4980	L8 Apparent Power	Float	VA	For load on current channel 8		✓	✓
4982	L9 Apparent Power	Float	VA	For load on current channel 9			✓
4984	L10 Apparent Power	Float	VA	For load on current channel 10			✓
4986	L11 Apparent Power	Float	VA	For load on current channel 11			✓
4988	L12 Apparent Power	Float	VA	For load on current channel 12			✓
4990	L13 Apparent Power	Float	VA	For load on current channel 13			✓
4992	L14 Apparent Power	Float	VA	For load on current channel 14			✓
4994	L4 Reactive Power	Float	VAR	For load on current channel 4		✓	✓
4996	L5 Reactive Power	Float	VAR	For load on current channel 5		✓	✓
4998	L6 Reactive Power	Float	VAR	For load on current channel 6		✓	✓
5000	L7 Reactive Power	Float	VAR	For load on current channel 7		✓	✓



Currents, Powers, and Scopes								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
5002	L8 Reactive Power	Float	VAR	For load on current channel 8		✓	✓	
5004	L9 Reactive Power	Float	VAR	For load on current channel 9			✓	
5006	L10 Reactive Power	Float	VAR	For load on current channel 10			✓	
5008	L11 Reactive Power	Float	VAR	For load on current channel 11			✓	
5010	L12 Reactive Power	Float	VAR	For load on current channel 12			✓	
5012	L13 Reactive Power	Float	VAR	For load on current channel 13			✓	
5014	L14 Reactive Power	Float	VAR	For load on current channel 14			✓	
5016	L4 True Power Factor	Float	-	For load on current channel 4		✓	✓	
5018	L5 True Power Factor	Float	-	For load on current channel 5		✓	✓	
5020	L6 True Power Factor	Float	-	For load on current channel 6		✓	✓	
5022	L7 True Power Factor	Float	-	For load on current channel 7		✓	✓	
5024	L8 True Power Factor	Float	-	For load on current channel 8		✓	✓	
5026	L9 True Power Factor	Float	-	For load on current channel 9			✓	
5028	L10 True Power Factor	Float	-	For load on current channel 10			✓	
5030	L11 True Power Factor	Float	-	For load on current channel 11			✓	
5032	L12 True Power Factor	Float	-	For load on current channel 12			✓	
5034	L13 True Power Factor	Float	-	For load on current channel 13			✓	
5036	L14 True Power Factor	Float	-	For load on current channel 14			✓	
5038	Energy 4	Float	Wh	For load on current channel 4		✓	✓	
5040	Energy 5	Float	Wh	For load on current channel 5		✓	✓	
5042	Energy 6	Float	Wh	For load on current channel 6		✓	✓	
5044	Energy 7	Float	Wh	For load on current channel 7		✓	✓	
5046	Energy 8	Float	Wh	For load on current channel 8		✓	✓	
5048	Energy 9	Float	Wh	For load on current channel 9			✓	
5050	Energy 10	Float	Wh	For load on current channel 10			✓	
5052	Energy 11	Float	Wh	For load on current channel 11			✓	
5054	Energy 12	Float	Wh	For load on current channel 12			✓	
5056	Energy 13	Float	Wh	For load on current channel 13			✓	
5058	Energy 14	Float	Wh	For load on current channel 14			✓	
5060	Reactive Energy 4	Float	VARh	For load on current channel 4		✓	✓	
5062	Reactive Energy 5	Float	VARh	For load on current channel 5		✓	✓	
5064	Reactive Energy 6	Float	VARh	For load on current channel 6		✓	✓	
5066	Reactive Energy 7	Float	VARh	For load on current channel 7		✓	✓	
5068	Reactive Energy 8	Float	VARh	For load on current channel 8		✓	✓	
5070	Reactive Energy 9	Float	VARh	For load on current channel 9			✓	
5072	Reactive Energy 10	Float	VARh	For load on current channel 10			✓	
5074	Reactive Energy 11	Float	VARh	For load on current channel 11			✓	
5076	Reactive Energy 12	Float	VARh	For load on current channel 12			✓	
5078	Reactive Energy 13	Float	VARh	For load on current channel 13			✓	
5080	Reactive Energy 14	Float	VARh	For load on current channel 14			✓	
5082	Apparent Energy 4	Float	VAh	For load on current channel 4		✓	✓	
5084	Apparent Energy 5	Float	VAh	For load on current channel 5		✓	✓	
5086	Apparent Energy 6	Float	VAh	For load on current channel 6		✓	✓	
5088	Apparent Energy 7	Float	VAh	For load on current channel 7		✓	✓	
5090	Apparent Energy 8	Float	VAh	For load on current channel 8		✓	✓	
5092	Apparent Energy 9	Float	VAh	For load on current channel 9			✓	
5094	Apparent Energy 10	Float	VAh	For load on current channel 10			✓	
5096	Apparent Energy 11	Float	VAh	For load on current channel 11			✓	
5098	Apparent Energy 12	Float	VAh	For load on current channel 12			✓	
5100	Apparent Energy 13	Float	VAh	For load on current channel 13			✓	
5102	Apparent Energy 14	Float	VAh	For load on current channel 14			✓	
5104	Energy 4 Positive	Float	Wh	For load on current channel 4		✓	✓	
5106	Energy 5 Positive	Float	Wh	For load on current channel 5		✓	✓	
5108	Energy 6 Positive	Float	Wh	For load on current channel 6		✓	✓	
5110	Energy 7 Positive	Float	Wh	For load on current channel 7		✓	✓	
5112	Energy 8 Positive	Float	Wh	For load on current channel 8		✓	✓	
5114	Energy 9 Positive	Float	Wh	For load on current channel 9			✓	
5116	Energy 10 Positive	Float	Wh	For load on current channel 10			✓	
5118	Energy 11 Positive	Float	Wh	For load on current channel 11			✓	
5120	Energy 12 Positive	Float	Wh	For load on current channel 12			✓	
5122	Energy 13 Positive	Float	Wh	For load on current channel 13			✓	
5124	Energy 14 Positive	Float	Wh	For load on current channel 14			✓	
5126	Energy 4 Negative	Float	Wh	For load on current channel 4		✓	✓	
5128	Energy 5 Negative	Float	Wh	For load on current channel 5		✓	✓	
5130	Energy 6 Negative	Float	Wh	For load on current channel 6		✓	✓	
5132	Energy 7 Negative	Float	Wh	For load on current channel 7		✓	✓	
5134	Energy 8 Negative	Float	Wh	For load on current channel 8		✓	✓	
5136	Energy 9 Negative	Float	Wh	For load on current channel 9			✓	
5138	Energy 10 Negative	Float	Wh	For load on current channel 10			✓	
5140	Energy 11 Negative	Float	Wh	For load on current channel 11			✓	



Currents, Powers, and Scopes								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
5142	Energy 12 Negative	Float	Wh	For load on current channel 12			✓	
5144	Energy 13 Negative	Float	Wh	For load on current channel 13			✓	
5146	Energy 14 Negative	Float	Wh	For load on current channel 14			✓	
5148	Total Power 2	Float	Watt	For 3-phase load on current channels 6-8		✓	✓	
5150	Total Power 3	Float	Watt	For 3-phase load on current channels 9-11			✓	
5152	Total Power 4	Float	Watt	For 3-phase load on current channels 12-14			✓	
5154	Total Apparent Power 2	Float	VA	For 3-phase load on current channels 6-8		✓	✓	
5156	Total Apparent Power 3	Float	VA	For 3-phase load on current channels 9-11			✓	
5158	Total Apparent Power 4	Float	VA	For 3-phase load on current channels 12-14			✓	
5160	Total Reactive Power 2	Float	VAR	For 3-phase load on current channels 6-8		✓	✓	
5162	Total Reactive Power 3	Float	VAR	For 3-phase load on current channels 9-11			✓	
5164	Total Reactive Power 4	Float	VAR	For 3-phase load on current channels 12-14			✓	
5166	Total True Power Factor Power 2	Float	-	For 3-phase load on current channels 6-8		✓	✓	
5168	Total True Power Factor Power 3	Float	-	For 3-phase load on current channels 9-11			✓	
5170	Total True Power Factor Power 4	Float	-	For 3-phase load on current channels 12-14			✓	
5172	Total Energy 2	Float	Wh	For 3-phase load on current channels 6-8		✓	✓	
5174	Total Energy 3	Float	Wh	For 3-phase load on current channels 9-11			✓	
5176	Total Energy 4	Float	Wh	For 3-phase load on current channels 12-14			✓	
5178	Total Apparent Energy 2	Float	VAh	For 3-phase load on current channels 6-8		✓	✓	
5180	Total Apparent Energy 3	Float	VAh	For 3-phase load on current channels 9-11			✓	
5182	Total Apparent Energy 4	Float	VAh	For 3-phase load on current channels 12-14			✓	
5184	Total Reactive Energy 2	Float	VARh	For 3-phase load on current channels 6-8		✓	✓	
5186	Total Reactive Energy 3	Float	VARh	For 3-phase load on current channels 9-11			✓	
5188	Total Reactive Energy 4	Float	VARh	For 3-phase load on current channels 12-14			✓	
5190	Total Energy Positive 2	Float	Wh	For 3-phase load on current channels 6-8		✓	✓	
5192	Total Energy Positive 3	Float	Wh	For 3-phase load on current channels 9-11			✓	
5194	Total Energy Positive 4	Float	Wh	For 3-phase load on current channels 12-14			✓	
5196	Total Energy Negative 2	Float	Wh	For 3-phase load on current channels 6-8		✓	✓	
5198	Total Energy Negative 3	Float	Wh	For 3-phase load on current channels 9-11			✓	
5200	Total Energy Negative 4	Float	Wh	For 3-phase load on current channels 12-14			✓	
5202	Total Reactive Energy Positive 1	Float	VARh	For 3-phase load on current channels 1-3		✓	✓	
5204	Total Reactive Energy Positive 2	Float	VARh	For 3-phase load on current channels 6-8		✓	✓	
5206	Total Reactive Energy Positive 3	Float	VARh	For 3-phase load on current channels 9-11		✓	✓	
5208	Total Reactive Energy Positive 4	Float	VARh	For 3-phase load on current channels 12-14		✓	✓	
5210	Total Reactive Energy Negative 1	Float	VARh	For 3-phase load on current channels 1-3		✓	✓	
5212	Total Reactive Energy Negative 2	Float	VARh	For 3-phase load on current channels 6-8		✓	✓	
5214	Total Reactive Energy Negative 3	Float	VARh	For 3-phase load on current channels 9-11		✓	✓	
5216	Total Reactive Energy Negative 4	Float	VARh	For 3-phase load on current channels 12-14		✓	✓	
5218	Reactive Energy 1 Positive	Float	VARh	For load on current channel 1		✓	✓	
5220	Reactive Energy 2 Positive	Float	VARh	For load on current channel 2		✓	✓	
5222	Reactive Energy 3 Positive	Float	VARh	For load on current channel 3		✓	✓	
5224	Reactive Energy 4 Positive	Float	VARh	For load on current channel 4		✓	✓	
5226	Reactive Energy 5 Positive	Float	VARh	For load on current channel 5		✓	✓	
5228	Reactive Energy 6 Positive	Float	VARh	For load on current channel 6		✓	✓	
5230	Reactive Energy 7 Positive	Float	VARh	For load on current channel 7		✓	✓	
5232	Reactive Energy 8 Positive	Float	VARh	For load on current channel 8		✓	✓	
5234	Reactive Energy 9 Positive	Float	VARh	For load on current channel 9			✓	
5236	Reactive Energy 10 Positive	Float	VARh	For load on current channel 10			✓	
5238	Reactive Energy 11 Positive	Float	VARh	For load on current channel 11			✓	
5240	Reactive Energy 12 Positive	Float	VARh	For load on current channel 12			✓	
5242	Reactive Energy 13 Positive	Float	VARh	For load on current channel 13			✓	
5244	Reactive Energy 14 Positive	Float	VARh	For load on current channel 14			✓	
5246	Reactive Energy 1 Negative	Float	VARh	For load on current channel 1		✓	✓	
5248	Reactive Energy 2 Negative	Float	VARh	For load on current channel 2		✓	✓	
5250	Reactive Energy 3 Negative	Float	VARh	For load on current channel 3		✓	✓	
5252	Reactive Energy 4 Negative	Float	VARh	For load on current channel 4		✓	✓	
5254	Reactive Energy 5 Negative	Float	VARh	For load on current channel 5		✓	✓	
5256	Reactive Energy 6 Negative	Float	VARh	For load on current channel 6		✓	✓	
5258	Reactive Energy 7 Negative	Float	VARh	For load on current channel 7		✓	✓	
5260	Reactive Energy 8 Negative	Float	VARh	For load on current channel 8		✓	✓	
5262	Reactive Energy 9 Negative	Float	VARh	For load on current channel 9			✓	
5264	Reactive Energy 10 Negative	Float	VARh	For load on current channel 10			✓	
5266	Reactive Energy 11 Negative	Float	VARh	For load on current channel 11			✓	
5268	Reactive Energy 12 Negative	Float	VARh	For load on current channel 12			✓	
5270	Reactive Energy 13 Negative	Float	VARh	For load on current channel 13			✓	
5272	Reactive Energy 14 Negative	Float	VARh	For load on current channel 14			✓	



3.5 PQube Analog/HF Bank (Offset 0x6000)

This register bank focuses on DC values and high frequency harmonics.

It is new for the PQube 3.

Analog/HF Bank

Analog / HF Bank								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
6000	AN1 E RMS Half	Float	Volt (default)	User defined in Setup.		✓	✓	✓
6002	AN2 E RMS Half	Float	Volt (default)			✓	✓	✓
6004	AN3 E RMS Half	Float	Volt (default)			✓	✓	✓
6006	AN4 E RMS Half	Float	Volt (default)			✓	✓	✓
6008	AN1 AN2 RMS Half	Float	-			✓	✓	✓
6010	AN3 AN4 RMS Half	Float	-			✓	✓	✓
6012	Digital 1	Float				✓	✓	✓
6014	AN_Power_1	Float	Watt	Requires the configuration to declare Energy mode for Analog inputs 1 and 2		✓	✓	✓
6016	AN_Power_2	Float	Watt	Requires the configuration to declare Energy mode for Analog inputs 1 and 2		✓	✓	✓
6018	Analog_Energy	Float	Wh	Requires the configuration to declare Energy mode for Analog inputs 1 and 2		✓	✓	✓
6020	Analog_Energy_2	Float	Wh	Requires the configuration to declare Energy mode for Analog inputs 1 and 2		✓	✓	✓
	2kHz~9kHz HF registers							
6022	L1 Conducted Emissions 2000Hz	Float	Volt			✓	✓	✓
6024	L1 Conducted Emissions 2200Hz	Float	Volt			✓	✓	✓
6026	L1 Conducted Emissions 2400Hz	Float	Volt			✓	✓	✓
6028	L1 Conducted Emissions 2600Hz	Float	Volt			✓	✓	✓
6030	L1 Conducted Emissions 2800Hz	Float	Volt			✓	✓	✓
6032	L1 Conducted Emissions 3000Hz	Float	Volt			✓	✓	✓
6034	L1 Conducted Emissions 3200Hz	Float	Volt			✓	✓	✓
6036	L1 Conducted Emissions 3400Hz	Float	Volt			✓	✓	✓
6038	L1 Conducted Emissions 3600Hz	Float	Volt			✓	✓	✓
6040	L1 Conducted Emissions 3800Hz	Float	Volt			✓	✓	✓
6042	L1 Conducted Emissions 4000Hz	Float	Volt			✓	✓	✓
6044	L1 Conducted Emissions 4200Hz	Float	Volt			✓	✓	✓
6046	L1 Conducted Emissions 4400Hz	Float	Volt			✓	✓	✓
6048	L1 Conducted Emissions 4600Hz	Float	Volt			✓	✓	✓
6050	L1 Conducted Emissions 4800Hz	Float	Volt			✓	✓	✓
6052	L1 Conducted Emissions 5000Hz	Float	Volt			✓	✓	✓
6054	L1 Conducted Emissions 5200Hz	Float	Volt			✓	✓	✓
6056	L1 Conducted Emissions 5400Hz	Float	Volt			✓	✓	✓
6058	L1 Conducted Emissions 5600Hz	Float	Volt			✓	✓	✓
6060	L1 Conducted Emissions 5800Hz	Float	Volt			✓	✓	✓
6062	L1 Conducted Emissions 6000Hz	Float	Volt			✓	✓	✓
6064	L1 Conducted Emissions 6200Hz	Float	Volt			✓	✓	✓
6066	L1 Conducted Emissions 6400Hz	Float	Volt			✓	✓	✓
6068	L1 Conducted Emissions 6600Hz	Float	Volt			✓	✓	✓
6070	L1 Conducted Emissions 6800Hz	Float	Volt			✓	✓	✓
6072	L1 Conducted Emissions 7000Hz	Float	Volt			✓	✓	✓
6074	L1 Conducted Emissions 7200Hz	Float	Volt			✓	✓	✓
6076	L1 Conducted Emissions 7400Hz	Float	Volt			✓	✓	✓
6078	L1 Conducted Emissions 7600Hz	Float	Volt			✓	✓	✓
6080	L1 Conducted Emissions 7800Hz	Float	Volt			✓	✓	✓
6082	L1 Conducted Emissions 8000Hz	Float	Volt			✓	✓	✓
6084	L1 Conducted Emissions 8200Hz	Float	Volt			✓	✓	✓
6086	L1 Conducted Emissions 8400Hz	Float	Volt			✓	✓	✓
6088	L1 Conducted Emissions 8600Hz	Float	Volt			✓	✓	✓
6090	L1 Conducted Emissions 8800Hz	Float	Volt			✓	✓	✓
6092	L1 Conducted Emissions 9000Hz	Float	Volt			✓	✓	✓
6094	L2 Conducted Emissions 2000Hz	Float	Volt			✓	✓	✓
6096	L2 Conducted Emissions 2200Hz	Float	Volt			✓	✓	✓
6098	L2 Conducted Emissions 2400Hz	Float	Volt			✓	✓	✓
6100	L2 Conducted Emissions 2600Hz	Float	Volt			✓	✓	✓
6102	L2 Conducted Emissions 2800Hz	Float	Volt			✓	✓	✓
6104	L2 Conducted Emissions 3000Hz	Float	Volt			✓	✓	✓



Analog / HF Bank									
Offset	Register		Format	Units	Comments	PQube			
						CL	3	3e	3v
6106	L2 Conducted	Emissions 3200Hz	Float	Volt			✓	✓	✓
6108	L2 Conducted	Emissions 3400Hz	Float	Volt			✓	✓	✓
6110	L2 Conducted	Emissions 3600Hz	Float	Volt			✓	✓	✓
6112	L2 Conducted	Emissions 3800Hz	Float	Volt			✓	✓	✓
6114	L2 Conducted	Emissions 4000Hz	Float	Volt			✓	✓	✓
6116	L2 Conducted	Emissions 4200Hz	Float	Volt			✓	✓	✓
6118	L2 Conducted	Emissions 4400Hz	Float	Volt			✓	✓	✓
6120	L2 Conducted	Emissions 4600Hz	Float	Volt			✓	✓	✓
6122	L2 Conducted	Emissions 4800Hz	Float	Volt			✓	✓	✓
6124	L2 Conducted	Emissions 5000Hz	Float	Volt			✓	✓	✓
6126	L2 Conducted	Emissions 5200Hz	Float	Volt			✓	✓	✓
6128	L2 Conducted	Emissions 5400Hz	Float	Volt			✓	✓	✓
6130	L2 Conducted	Emissions 5600Hz	Float	Volt			✓	✓	✓
6132	L2 Conducted	Emissions 5800Hz	Float	Volt			✓	✓	✓
6134	L2 Conducted	Emissions 6000Hz	Float	Volt			✓	✓	✓
6136	L2 Conducted	Emissions 6200Hz	Float	Volt			✓	✓	✓
6138	L2 Conducted	Emissions 6400Hz	Float	Volt			✓	✓	✓
6140	L2 Conducted	Emissions 6600Hz	Float	Volt			✓	✓	✓
6142	L2 Conducted	Emissions 6800Hz	Float	Volt			✓	✓	✓
6144	L2 Conducted	Emissions 7000Hz	Float	Volt			✓	✓	✓
6146	L2 Conducted	Emissions 7200Hz	Float	Volt			✓	✓	✓
6148	L2 Conducted	Emissions 7400Hz	Float	Volt			✓	✓	✓
6150	L2 Conducted	Emissions 7600Hz	Float	Volt			✓	✓	✓
6152	L2 Conducted	Emissions 7800Hz	Float	Volt			✓	✓	✓
6154	L2 Conducted	Emissions 8000Hz	Float	Volt			✓	✓	✓
6156	L2 Conducted	Emissions 8200Hz	Float	Volt			✓	✓	✓
6158	L2 Conducted	Emissions 8400Hz	Float	Volt			✓	✓	✓
6160	L2 Conducted	Emissions 8600Hz	Float	Volt			✓	✓	✓
6162	L2 Conducted	Emissions 8800Hz	Float	Volt			✓	✓	✓
6164	L2 Conducted	Emissions 9000Hz	Float	Volt			✓	✓	✓
6166	L3 Conducted	Emissions 2000Hz	Float	Volt			✓	✓	✓
6168	L3 Conducted	Emissions 2200Hz	Float	Volt			✓	✓	✓
6170	L3 Conducted	Emissions 2400Hz	Float	Volt			✓	✓	✓
6172	L3 Conducted	Emissions 2600Hz	Float	Volt			✓	✓	✓
6174	L3 Conducted	Emissions 2800Hz	Float	Volt			✓	✓	✓
6176	L3 Conducted	Emissions 3000Hz	Float	Volt			✓	✓	✓
6178	L3 Conducted	Emissions 3200Hz	Float	Volt			✓	✓	✓
6180	L3 Conducted	Emissions 3400Hz	Float	Volt			✓	✓	✓
6182	L3 Conducted	Emissions 3600Hz	Float	Volt			✓	✓	✓
6184	L3 Conducted	Emissions 3800Hz	Float	Volt			✓	✓	✓
6186	L3 Conducted	Emissions 4000Hz	Float	Volt			✓	✓	✓
6188	L3 Conducted	Emissions 4200Hz	Float	Volt			✓	✓	✓
6190	L3 Conducted	Emissions 4400Hz	Float	Volt			✓	✓	✓
6192	L3 Conducted	Emissions 4600Hz	Float	Volt			✓	✓	✓
6194	L3 Conducted	Emissions 4800Hz	Float	Volt			✓	✓	✓
6196	L3 Conducted	Emissions 5000Hz	Float	Volt			✓	✓	✓
6198	L3 Conducted	Emissions 5200Hz	Float	Volt			✓	✓	✓
6200	L3 Conducted	Emissions 5400Hz	Float	Volt			✓	✓	✓
6202	L3 Conducted	Emissions 5600Hz	Float	Volt			✓	✓	✓
6204	L3 Conducted	Emissions 5800Hz	Float	Volt			✓	✓	✓
6206	L3 Conducted	Emissions 6000Hz	Float	Volt			✓	✓	✓
6208	L3 Conducted	Emissions 6200Hz	Float	Volt			✓	✓	✓
6210	L3 Conducted	Emissions 6400Hz	Float	Volt			✓	✓	✓
6212	L3 Conducted	Emissions 6600Hz	Float	Volt			✓	✓	✓
6214	L3 Conducted	Emissions 6800Hz	Float	Volt			✓	✓	✓
6216	L3 Conducted	Emissions 7000Hz	Float	Volt			✓	✓	✓
6218	L3 Conducted	Emissions 7200Hz	Float	Volt			✓	✓	✓
6220	L3 Conducted	Emissions 7400Hz	Float	Volt			✓	✓	✓
6222	L3 Conducted	Emissions 7600Hz	Float	Volt			✓	✓	✓
6224	L3 Conducted	Emissions 7800Hz	Float	Volt			✓	✓	✓
6226	L3 Conducted	Emissions 8000Hz	Float	Volt			✓	✓	✓
6228	L3 Conducted	Emissions 8200Hz	Float	Volt			✓	✓	✓
6230	L3 Conducted	Emissions 8400Hz	Float	Volt			✓	✓	✓
6232	L3 Conducted	Emissions 8600Hz	Float	Volt			✓	✓	✓
6234	L3 Conducted	Emissions 8800Hz	Float	Volt			✓	✓	✓
6236	L3 Conducted	Emissions 9000Hz	Float	Volt			✓	✓	✓



Analog / HF Bank									
Offset	Register	Format	Units	Comments	PQube				
					CL	3	3e	3v	
	8kHz ~150kHz HF max/average registers			Requires firmware 3.9.7 or later. Register refresh rate: 1 min					
6238/ 7122	L1 Conducted Emissions 8K	Float	Volt	Max value over 1 min /average value over 1 min		✓	✓	✓	
6240/ 7124	L1 Conducted Emissions 10K	Float	Volt	Max value over 1 min /average value over 1 min		✓	✓	✓	
6242/ 7126	L1 Conducted Emissions 12K	Float	Volt	...		✓	✓	✓	
6244/ 7128	L1 Conducted Emissions 14K	Float	Volt			✓	✓	✓	
6246/ 7130	L1 Conducted Emissions 16K	Float	Volt			✓	✓	✓	
6248/ 7132	L1 Conducted Emissions 18K	Float	Volt			✓	✓	✓	
6250/ 7134	L1 Conducted Emissions 20k	Float	Volt			✓	✓	✓	
6252/ 7136	L1 Conducted Emissions 22k	Float	Volt			✓	✓	✓	
6254 / 7138	L1 Conducted Emissions 24k	Float	Volt			✓	✓	✓	
6256/ 7140	L1 Conducted Emissions 26k	Float	Volt			✓	✓	✓	
6258/ 7142	L1 Conducted Emissions 28k	Float	Volt			✓	✓	✓	
6260/ 7144	L1 Conducted Emissions 30k	Float	Volt			✓	✓	✓	
6262/ 7146	L1 Conducted Emissions 32k	Float	Volt			✓	✓	✓	
6264/ 7148	L1 Conducted Emissions 34k	Float	Volt			✓	✓	✓	
6266/ 7150	L1 Conducted Emissions 36k	Float	Volt			✓	✓	✓	
6268/ 7152	L1 Conducted Emissions 38k	Float	Volt			✓	✓	✓	
6270/ 7154	L1 Conducted Emissions 40k	Float	Volt			✓	✓	✓	
6272/ 7156	L1 Conducted Emissions 42k	Float	Volt			✓	✓	✓	
6274/ 7158	L1 Conducted Emissions 44k	Float	Volt			✓	✓	✓	
6276/ 7160	L1 Conducted Emissions 46k	Float	Volt			✓	✓	✓	
6278/ 7162	L1 Conducted Emissions 48k	Float	Volt			✓	✓	✓	
6280/ 7164	L1 Conducted Emissions 50k	Float	Volt			✓	✓	✓	
6282/ 7166	L1 Conducted Emissions 52k	Float	Volt			✓	✓	✓	
6284/ 7168	L1 Conducted Emissions 54k	Float	Volt			✓	✓	✓	
6286/ 7170	L1 Conducted Emissions 56k	Float	Volt			✓	✓	✓	
6288/ 7172	L1 Conducted Emissions 58k	Float	Volt			✓	✓	✓	
6290/ 7174	L1 Conducted Emissions 60k	Float	Volt			✓	✓	✓	
6292/ 7176	L1 Conducted Emissions 62k	Float	Volt			✓	✓	✓	
6294/ 7178	L1 Conducted Emissions 64k	Float	Volt			✓	✓	✓	
6296/ 7180	L1 Conducted Emissions 66k	Float	Volt			✓	✓	✓	
6298/ 7182	L1 Conducted Emissions 68k	Float	Volt			✓	✓	✓	
6300/ 7184	L1 Conducted Emissions 70k	Float	Volt			✓	✓	✓	
6302/ 7186	L1 Conducted Emissions 72k	Float	Volt			✓	✓	✓	
6304/ 7188	L1 Conducted Emissions 74k	Float	Volt			✓	✓	✓	
6306/ 7190	L1 Conducted Emissions 76k	Float	Volt			✓	✓	✓	
6308/ 7192	L1 Conducted Emissions 78k	Float	Volt			✓	✓	✓	
6310/ 7194	L1 Conducted Emissions 80k	Float	Volt			✓	✓	✓	
6312/ 7196	L1 Conducted Emissions 82k	Float	Volt			✓	✓	✓	
6314/ 7198	L1 Conducted Emissions 84k	Float	Volt			✓	✓	✓	
6316/ 7200	L1 Conducted Emissions 86k	Float	Volt			✓	✓	✓	
6318/ 7202	L1 Conducted Emissions 88k	Float	Volt			✓	✓	✓	
6320/ 7204	L1 Conducted Emissions 90k	Float	Volt			✓	✓	✓	
6322/ 7206	L1 Conducted Emissions 92k	Float	Volt			✓	✓	✓	
6324/ 7208	L1 Conducted Emissions 94k	Float	Volt			✓	✓	✓	
6326/ 7210	L1 Conducted Emissions 96k	Float	Volt			✓	✓	✓	
6328/ 7212	L1 Conducted Emissions 98k	Float	Volt			✓	✓	✓	
6330/ 7214	L1 Conducted Emissions 100k	Float	Volt			✓	✓	✓	
6332/ 7216	L1 Conducted Emissions 102k	Float	Volt			✓	✓	✓	
6334/ 7218	L1 Conducted Emissions 104k	Float	Volt			✓	✓	✓	
6336/ 7220	L1 Conducted Emissions 106k	Float	Volt			✓	✓	✓	
6338/ 7222	L1 Conducted Emissions 108k	Float	Volt			✓	✓	✓	
6340/ 7224	L1 Conducted Emissions 110k	Float	Volt			✓	✓	✓	
6342/ 7226	L1 Conducted Emissions 112k	Float	Volt			✓	✓	✓	
6344/ 7228	L1 Conducted Emissions 114k	Float	Volt			✓	✓	✓	
6346/ 7230	L1 Conducted Emissions 116k	Float	Volt			✓	✓	✓	
6348/ 7232	L1 Conducted Emissions 118k	Float	Volt			✓	✓	✓	
6350/ 7234	L1 Conducted Emissions 120k	Float	Volt			✓	✓	✓	
6352/ 7236	L1 Conducted Emissions 122k	Float	Volt			✓	✓	✓	
6354/ 7238	L1 Conducted Emissions 124k	Float	Volt			✓	✓	✓	
6356/ 7240	L1 Conducted Emissions 126k	Float	Volt			✓	✓	✓	
6358/ 7242	L1 Conducted Emissions 128k	Float	Volt			✓	✓	✓	
6360/ 7244	L1 Conducted Emissions 130k	Float	Volt			✓	✓	✓	
6362/ 7246	L1 Conducted Emissions 132k	Float	Volt			✓	✓	✓	
6364/ 7248	L1 Conducted Emissions 134k	Float	Volt			✓	✓	✓	
6366/ 7250	L1 Conducted Emissions 136k	Float	Volt			✓	✓	✓	
6368/ 7252	L1 Conducted Emissions 138k	Float	Volt			✓	✓	✓	



Analog / HF Bank								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
6370/ 7254	L1 Conducted Emissions 140k	Float	Volt			✓	✓	✓
6372/ 7256	L1 Conducted Emissions 142k	Float	Volt			✓	✓	✓
6374/ 7258	L1 Conducted Emissions 144k	Float	Volt			✓	✓	✓
6376/ 7260	L1 Conducted Emissions 146k	Float	Volt			✓	✓	✓
6378/ 7262	L1 Conducted Emissions 148k	Float	Volt			✓	✓	✓
6380/ 7264	L1 Conducted Emissions 150k	Float	Volt			✓	✓	✓
6382/ 7266	L2 Conducted Emissions 8K	Float	Volt			✓	✓	✓
6384/ 7268	L2 Conducted Emissions 10K	Float	Volt			✓	✓	✓
6386/ 7270	L2 Conducted Emissions 12K	Float	Volt			✓	✓	✓
6388/ 7272	L2 Conducted Emissions 14K	Float	Volt			✓	✓	✓
6390/ 7274	L2 Conducted Emissions 16K	Float	Volt			✓	✓	✓
6392/ 7276	L2 Conducted Emissions 18K	Float	Volt			✓	✓	✓
6394/ 7278	L2 Conducted Emissions 20k	Float	Volt			✓	✓	✓
6396/ 7280	L2 Conducted Emissions 22k	Float	Volt			✓	✓	✓
6398/ 7282	L2 Conducted Emissions 24k	Float	Volt			✓	✓	✓
6400/ 7284	L2 Conducted Emissions 26k	Float	Volt			✓	✓	✓
6402/ 7286	L2 Conducted Emissions 28k	Float	Volt			✓	✓	✓
6404/ 7288	L2 Conducted Emissions 30k	Float	Volt			✓	✓	✓
6406/ 7290	L2 Conducted Emissions 32k	Float	Volt			✓	✓	✓
6408/ 7292	L2 Conducted Emissions 34k	Float	Volt			✓	✓	✓
6410/ 7294	L2 Conducted Emissions 36k	Float	Volt			✓	✓	✓
6412/ 7296	L2 Conducted Emissions 38k	Float	Volt			✓	✓	✓
6414/ 7298	L2 Conducted Emissions 40k	Float	Volt			✓	✓	✓
6416/ 7300	L2 Conducted Emissions 42k	Float	Volt			✓	✓	✓
6418/ 7302	L2 Conducted Emissions 44k	Float	Volt			✓	✓	✓
6420/ 7304	L2 Conducted Emissions 46k	Float	Volt			✓	✓	✓
6422/ 7306	L2 Conducted Emissions 48k	Float	Volt			✓	✓	✓
6424/ 7308	L2 Conducted Emissions 50k	Float	Volt			✓	✓	✓
6426/ 7310	L2 Conducted Emissions 52k	Float	Volt			✓	✓	✓
6428/ 7312	L2 Conducted Emissions 54k	Float	Volt			✓	✓	✓
6430/ 7314	L2 Conducted Emissions 56k	Float	Volt			✓	✓	✓
6432/ 7316	L2 Conducted Emissions 58k	Float	Volt			✓	✓	✓
6434/ 7318	L2 Conducted Emissions 60k	Float	Volt			✓	✓	✓
6436/ 7320	L2 Conducted Emissions 62k	Float	Volt			✓	✓	✓
6438/ 7322	L2 Conducted Emissions 64k	Float	Volt			✓	✓	✓
6440/ 7324	L2 Conducted Emissions 66k	Float	Volt			✓	✓	✓
6442/ 7326	L2 Conducted Emissions 68k	Float	Volt			✓	✓	✓
6444/ 7328	L2 Conducted Emissions 70k	Float	Volt			✓	✓	✓
6446/ 7330	L2 Conducted Emissions 72k	Float	Volt			✓	✓	✓
6448/ 7332	L2 Conducted Emissions 74k	Float	Volt			✓	✓	✓
6450/ 7334	L2 Conducted Emissions 76k	Float	Volt			✓	✓	✓
6452/ 7336	L2 Conducted Emissions 78k	Float	Volt			✓	✓	✓
6454/ 7338	L2 Conducted Emissions 80k	Float	Volt			✓	✓	✓
6456/ 7340	L2 Conducted Emissions 82k	Float	Volt			✓	✓	✓
6458/ 7342	L2 Conducted Emissions 84k	Float	Volt			✓	✓	✓
6460/ 7344	L2 Conducted Emissions 86k	Float	Volt			✓	✓	✓
6462/ 7346	L2 Conducted Emissions 88k	Float	Volt			✓	✓	✓
6464/ 7348	L2 Conducted Emissions 90k	Float	Volt			✓	✓	✓
6466/ 7350	L2 Conducted Emissions 92k	Float	Volt			✓	✓	✓
6468/ 7352	L2 Conducted Emissions 94k	Float	Volt			✓	✓	✓
6470/ 7354	L2 Conducted Emissions 96k	Float	Volt			✓	✓	✓
6472/ 7356	L2 Conducted Emissions 98k	Float	Volt			✓	✓	✓
6474/ 7358	L2 Conducted Emissions 100k	Float	Volt			✓	✓	✓
6476/ 7360	L2 Conducted Emissions 102k	Float	Volt			✓	✓	✓
6478/ 7362	L2 Conducted Emissions 104k	Float	Volt			✓	✓	✓
6480/ 7364	L2 Conducted Emissions 106k	Float	Volt			✓	✓	✓
6482/ 7366	L2 Conducted Emissions 108k	Float	Volt			✓	✓	✓
6484/ 7368	L2 Conducted Emissions 110k	Float	Volt			✓	✓	✓
6486/ 7370	L2 Conducted Emissions 112k	Float	Volt			✓	✓	✓
6488/ 7372	L2 Conducted Emissions 114k	Float	Volt			✓	✓	✓
6490/ 7374	L2 Conducted Emissions 116k	Float	Volt			✓	✓	✓
6492/ 7376	L2 Conducted Emissions 118k	Float	Volt			✓	✓	✓
6494/ 7378	L2 Conducted Emissions 120k	Float	Volt			✓	✓	✓
6496/ 7380	L2 Conducted Emissions 122k	Float	Volt			✓	✓	✓
6498/ 7382	L2 Conducted Emissions 124k	Float	Volt			✓	✓	✓
6500/ 7384	L2 Conducted Emissions 126k	Float	Volt			✓	✓	✓
6502/ 7386	L2 Conducted Emissions 128k	Float	Volt			✓	✓	✓
6504/ 7388	L2 Conducted Emissions 130k	Float	Volt			✓	✓	✓
6506/ 7390	L2 Conducted Emissions 132k	Float	Volt			✓	✓	✓



Analog / HF Bank								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
6508/ 7392	L2 Conducted Emissions 134k	Float	Volt			✓	✓	✓
6510/ 7394	L2 Conducted Emissions 136k	Float	Volt			✓	✓	✓
6512/ 7396	L2 Conducted Emissions 138k	Float	Volt			✓	✓	✓
6514/ 7398	L2 Conducted Emissions 140k	Float	Volt			✓	✓	✓
6516/ 7400	L2 Conducted Emissions 142k	Float	Volt			✓	✓	✓
6518/ 7402	L2 Conducted Emissions 144k	Float	Volt			✓	✓	✓
6520/ 7404	L2 Conducted Emissions 146k	Float	Volt			✓	✓	✓
6522/ 7406	L2 Conducted Emissions 148k	Float	Volt			✓	✓	✓
6524/ 7408	L2 Conducted Emissions 150k	Float	Volt			✓	✓	✓
6526/ 7410	L3 Conducted Emissions 8K	Float	Volt			✓	✓	✓
6528/ 7412	L3 Conducted Emissions 10K	Float	Volt			✓	✓	✓
6530/ 7414	L3 Conducted Emissions 12K	Float	Volt			✓	✓	✓
6532/ 7416	L3 Conducted Emissions 14K	Float	Volt			✓	✓	✓
6534/ 7418	L3 Conducted Emissions 16K	Float	Volt			✓	✓	✓
6536/ 7420	L3 Conducted Emissions 18K	Float	Volt			✓	✓	✓
6538/ 7422	L3 Conducted Emissions 20k	Float	Volt			✓	✓	✓
6540/ 7424	L3 Conducted Emissions 22k	Float	Volt			✓	✓	✓
6542/ 7426	L3 Conducted Emissions 24k	Float	Volt			✓	✓	✓
6544/ 7428	L3 Conducted Emissions 26k	Float	Volt			✓	✓	✓
6546/ 7430	L3 Conducted Emissions 28k	Float	Volt			✓	✓	✓
6548/ 7432	L3 Conducted Emissions 30k	Float	Volt			✓	✓	✓
6550/ 7434	L3 Conducted Emissions 32k	Float	Volt			✓	✓	✓
6552/ 7436	L3 Conducted Emissions 34k	Float	Volt			✓	✓	✓
6554/ 7438	L3 Conducted Emissions 36k	Float	Volt			✓	✓	✓
6556/ 7440	L3 Conducted Emissions 38k	Float	Volt			✓	✓	✓
6558/ 7442	L3 Conducted Emissions 40k	Float	Volt			✓	✓	✓
6560/ 7444	L3 Conducted Emissions 42k	Float	Volt			✓	✓	✓
6562/ 7446	L3 Conducted Emissions 44k	Float	Volt			✓	✓	✓
6564/ 7448	L3 Conducted Emissions 46k	Float	Volt			✓	✓	✓
6566/ 7450	L3 Conducted Emissions 48k	Float	Volt			✓	✓	✓
6568/ 7452	L3 Conducted Emissions 50k	Float	Volt			✓	✓	✓
6570/ 7454	L3 Conducted Emissions 52k	Float	Volt			✓	✓	✓
6572/ 7456	L3 Conducted Emissions 54k	Float	Volt			✓	✓	✓
6574/ 7458	L3 Conducted Emissions 56k	Float	Volt			✓	✓	✓
6576/ 7460	L3 Conducted Emissions 58k	Float	Volt			✓	✓	✓
6578/ 7462	L3 Conducted Emissions 60k	Float	Volt			✓	✓	✓
6580/ 7464	L3 Conducted Emissions 62k	Float	Volt			✓	✓	✓
6582/ 7466	L3 Conducted Emissions 64k	Float	Volt			✓	✓	✓
6584/ 7468	L3 Conducted Emissions 66k	Float	Volt			✓	✓	✓
6586/ 7470	L3 Conducted Emissions 68k	Float	Volt			✓	✓	✓
6588/ 7472	L3 Conducted Emissions 70k	Float	Volt			✓	✓	✓
6590/ 7474	L3 Conducted Emissions 72k	Float	Volt			✓	✓	✓
6592/ 7476	L3 Conducted Emissions 74k	Float	Volt			✓	✓	✓
6594/ 7478	L3 Conducted Emissions 76k	Float	Volt			✓	✓	✓
6596/ 7480	L3 Conducted Emissions 78k	Float	Volt			✓	✓	✓
6598/ 7482	L3 Conducted Emissions 80k	Float	Volt			✓	✓	✓
6600/ 7484	L3 Conducted Emissions 82k	Float	Volt			✓	✓	✓
6602/ 7486	L3 Conducted Emissions 84k	Float	Volt			✓	✓	✓
6604/ 7488	L3 Conducted Emissions 86k	Float	Volt			✓	✓	✓
6606/ 7490	L3 Conducted Emissions 88k	Float	Volt			✓	✓	✓
6608/ 7492	L3 Conducted Emissions 90k	Float	Volt			✓	✓	✓
6610/ 7494	L3 Conducted Emissions 92k	Float	Volt			✓	✓	✓
6612/ 7496	L3 Conducted Emissions 94k	Float	Volt			✓	✓	✓
6614/ 7498	L3 Conducted Emissions 96k	Float	Volt			✓	✓	✓
6616/ 7500	L3 Conducted Emissions 98k	Float	Volt			✓	✓	✓
6618/ 7502	L3 Conducted Emissions 100k	Float	Volt			✓	✓	✓
6620/ 7504	L3 Conducted Emissions 102k	Float	Volt			✓	✓	✓
6622/ 7506	L3 Conducted Emissions 104k	Float	Volt			✓	✓	✓
6624/ 7508	L3 Conducted Emissions 106k	Float	Volt			✓	✓	✓
6626/ 7510	L3 Conducted Emissions 108k	Float	Volt			✓	✓	✓
6628/ 7512	L3 Conducted Emissions 110k	Float	Volt			✓	✓	✓
6630/ 7514	L3 Conducted Emissions 112k	Float	Volt			✓	✓	✓
6632/ 7516	L3 Conducted Emissions 114k	Float	Volt			✓	✓	✓
6634/ 7518	L3 Conducted Emissions 116k	Float	Volt			✓	✓	✓
6636/ 7520	L3 Conducted Emissions 118k	Float	Volt			✓	✓	✓
6638/ 7522	L3 Conducted Emissions 120k	Float	Volt			✓	✓	✓
6640/ 7524	L3 Conducted Emissions 122k	Float	Volt			✓	✓	✓
6642/ 7526	L3 Conducted Emissions 124k	Float	Volt			✓	✓	✓
6644/ 7528	L3 Conducted Emissions 126k	Float	Volt			✓	✓	✓



Analog / HF Bank									
Offset	Register	Format	Units	Comments	PQube				
					CL	3	3e	3v	
6646/ 7530	L3 Conducted Emissions 128k	Float	Volt			✓	✓	✓	
6648/ 7532	L3 Conducted Emissions 130k	Float	Volt			✓	✓	✓	
6650/ 7534	L3 Conducted Emissions 132k	Float	Volt			✓	✓	✓	
6652/ 7536	L3 Conducted Emissions 134k	Float	Volt			✓	✓	✓	
6654/ 7538	L3 Conducted Emissions 136k	Float	Volt			✓	✓	✓	
6656/ 7540	L3 Conducted Emissions 138k	Float	Volt			✓	✓	✓	
6658/ 7542	L3 Conducted Emissions 140k	Float	Volt			✓	✓	✓	
6660/ 7544	L3 Conducted Emissions 142k	Float	Volt			✓	✓	✓	
6662/ 7546	L3 Conducted Emissions 144k	Float	Volt			✓	✓	✓	
6664/ 7548	L3 Conducted Emissions 146k	Float	Volt			✓	✓	✓	
6666/ 7550	L3 Conducted Emissions 148k	Float	Volt			✓	✓	✓	
6668/ 7552	L3 Conducted Emissions 150k	Float	Volt			✓	✓	✓	
6670/ 7554	N Conducted Emissions 8K	Float	Volt			✓	✓	✓	
6672/ 7556	N Conducted Emissions 10K	Float	Volt			✓	✓	✓	
6674/ 7558	N Conducted Emissions 12K	Float	Volt			✓	✓	✓	
6676/ 7560	N Conducted Emissions 14K	Float	Volt			✓	✓	✓	
6678/ 7562	N Conducted Emissions 16K	Float	Volt			✓	✓	✓	
6680/ 7564	N Conducted Emissions 18K	Float	Volt			✓	✓	✓	
6682/ 7566	N Conducted Emissions 20k	Float	Volt			✓	✓	✓	
6684/ 7568	N Conducted Emissions 22k	Float	Volt			✓	✓	✓	
6686/ 7570	N Conducted Emissions 24k	Float	Volt			✓	✓	✓	
6688/ 7572	N Conducted Emissions 26k	Float	Volt			✓	✓	✓	
6690/ 7574	N Conducted Emissions 28k	Float	Volt			✓	✓	✓	
6692/ 7576	N Conducted Emissions 30k	Float	Volt			✓	✓	✓	
6694/ 7578	N Conducted Emissions 32k	Float	Volt			✓	✓	✓	
6696/ 7580	N Conducted Emissions 34k	Float	Volt			✓	✓	✓	
6698/ 7582	N Conducted Emissions 36k	Float	Volt			✓	✓	✓	
6700/ 7584	N Conducted Emissions 38k	Float	Volt			✓	✓	✓	
6702/ 7586	N Conducted Emissions 40k	Float	Volt			✓	✓	✓	
6704/ 7588	N Conducted Emissions 42k	Float	Volt			✓	✓	✓	
6706/ 7590	N Conducted Emissions 44k	Float	Volt			✓	✓	✓	
6708/ 7592	N Conducted Emissions 46k	Float	Volt			✓	✓	✓	
6710/ 7594	N Conducted Emissions 48k	Float	Volt			✓	✓	✓	
6712/ 7596	N Conducted Emissions 50k	Float	Volt			✓	✓	✓	
6714/ 7598	N Conducted Emissions 52k	Float	Volt			✓	✓	✓	
6716/ 7600	N Conducted Emissions 54k	Float	Volt			✓	✓	✓	
6718/ 7602	N Conducted Emissions 56k	Float	Volt			✓	✓	✓	
6720/ 7604	N Conducted Emissions 58k	Float	Volt			✓	✓	✓	
6722/ 7606	N Conducted Emissions 60k	Float	Volt			✓	✓	✓	
6724/ 7608	N Conducted Emissions 62k	Float	Volt			✓	✓	✓	
6726/ 7610	N Conducted Emissions 64k	Float	Volt			✓	✓	✓	
6728/ 7612	N Conducted Emissions 66k	Float	Volt			✓	✓	✓	
6730/ 7614	N Conducted Emissions 68k	Float	Volt			✓	✓	✓	
6732/ 7616	N Conducted Emissions 70k	Float	Volt			✓	✓	✓	
6734/ 7618	N Conducted Emissions 72k	Float	Volt			✓	✓	✓	
6736/ 7620	N Conducted Emissions 74k	Float	Volt			✓	✓	✓	
6738/ 7622	N Conducted Emissions 76k	Float	Volt			✓	✓	✓	
6740/ 7624	N Conducted Emissions 78k	Float	Volt			✓	✓	✓	
6742/ 7626	N Conducted Emissions 80k	Float	Volt			✓	✓	✓	
6744/ 7628	N Conducted Emissions 82k	Float	Volt			✓	✓	✓	
6746/ 7630	N Conducted Emissions 84k	Float	Volt			✓	✓	✓	
6748/ 7632	N Conducted Emissions 86k	Float	Volt			✓	✓	✓	
6750/ 7634	N Conducted Emissions 88k	Float	Volt			✓	✓	✓	
6752/ 7636	N Conducted Emissions 90k	Float	Volt			✓	✓	✓	
6754/ 7638	N Conducted Emissions 92k	Float	Volt			✓	✓	✓	
6756/ 7640	N Conducted Emissions 94k	Float	Volt			✓	✓	✓	
6758/ 7642	N Conducted Emissions 96k	Float	Volt			✓	✓	✓	
6760/ 7644	N Conducted Emissions 98k	Float	Volt			✓	✓	✓	
6762/ 7646	N Conducted Emissions 100k	Float	Volt			✓	✓	✓	
6764/ 7648	N Conducted Emissions 102k	Float	Volt			✓	✓	✓	
6766/ 7650	N Conducted Emissions 104k	Float	Volt			✓	✓	✓	
6768/ 7652	N Conducted Emissions 106k	Float	Volt			✓	✓	✓	
6770/ 7654	N Conducted Emissions 108k	Float	Volt			✓	✓	✓	
6772/ 7656	N Conducted Emissions 110k	Float	Volt			✓	✓	✓	
6774/ 7658	N Conducted Emissions 112k	Float	Volt			✓	✓	✓	
6776/ 7660	N Conducted Emissions 114k	Float	Volt			✓	✓	✓	
6778/ 7662	N Conducted Emissions 116k	Float	Volt			✓	✓	✓	
6780/ 7664	N Conducted Emissions 118k	Float	Volt			✓	✓	✓	
6782/ 7666	N Conducted Emissions 120k	Float	Volt	Max value over 1 min /average value over 1 min		✓	✓	✓	



Analog / HF Bank								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
6784/ 7668	N Conducted Emissions 122k	Float	Volt	Max value over 1 min /average value over 1 min		✓	✓	✓
6786/ 7670	N Conducted Emissions 124k	Float	Volt			✓	✓	✓
6788/ 7672	N Conducted Emissions 126k	Float	Volt			✓	✓	✓
6790/ 7674	N Conducted Emissions 128k	Float	Volt			✓	✓	✓
6792/ 7676	N Conducted Emissions 130k	Float	Volt			✓	✓	✓
6794/ 7678	N Conducted Emissions 132k	Float	Volt			✓	✓	✓
6796/ 7680	N Conducted Emissions 134k	Float	Volt			✓	✓	✓
6798/ 7682	N Conducted Emissions 136k	Float	Volt			✓	✓	✓
6800/ 7684	N Conducted Emissions 138k	Float	Volt			✓	✓	✓
6802/ 7686	N Conducted Emissions 140k	Float	Volt			✓	✓	✓
6804/ 7688	N Conducted Emissions 142k	Float	Volt			✓	✓	✓
6806/ 7690	N Conducted Emissions 144k	Float	Volt			✓	✓	✓
6808/ 7692	N Conducted Emissions 146k	Float	Volt			✓	✓	✓
6810/ 7694	N Conducted Emissions 148k	Float	Volt	Max value over 1 min /average value over 1 min		✓	✓	✓
6812/ 7696	N Conducted Emissions 150k	Float	Volt	Max value over 1 min /average value over 1 min		✓	✓	✓
6814	Internal Temperature	Float	Degree C	Not Supported				
6816	Battery Cycles	Float	-	Not Supported				
6818	Battery Current	Float	Amps	Not Supported				
6820	Battery Voltage	Float	Volt	Not Supported				
6822	Ext Probe 1 Ambient Temp	Float	Degree C			✓	✓	✓
6824	Ext Probe 1 Humidity	Float	%RH			✓	✓	✓
6826	Ext Probe 1 Pressure	Float	HPa			✓	✓	✓
6828	Ext Probe 1 Surface Temp	Float	Degree C			✓	✓	✓
6830	Ext_Probe_1_Acceleration_X	Float	G or Meters per Second^2	Units in g or meters/second squared depending on configuration		✓	✓	✓
6832	Ext_Probe_1_Acceleration_Y	Float	G or Meters per Second^2	Units in g or meters/second squared depending on configuration		✓	✓	✓
6834	Ext_Probe_1_Acceleration_Z	Float	G or Meters per Second^2	Units in g or meters/second squared depending on configuration		✓	✓	✓
6836	Ext Probe 1 Tilt Angle	Float	Degree	Instantaneous tilt angle, measured at 1Hz		✓	✓	✓
6838	Ext Probe 2 Ambient Temp	Float	Degree C			✓	✓	✓
6840	Ext Probe 2 Humidity	Float	%RH			✓	✓	✓
6842	Ext Probe 2 Pressure	Float	HPa			✓	✓	✓
6844	Ext Probe 2 Surface Temp	Float	Degree C			✓	✓	✓
6846	Ext_Probe_2_Acceleration_X	Float	G or Meters per Second^2	Units in g or meters/second squared depending on configuration		✓	✓	✓
6848	Ext_Probe_2_Acceleration_Y	Float	G or Meters per Second^2	Units in g or meters/second squared depending on configuration		✓	✓	✓
6850	Ext_Probe_2_Acceleration_Z	Float	G or Meters per Second^2	Units in g or meters/second squared depending on configuration		✓	✓	✓
6852	Ext Probe 2 Tilt Angle	Float	Degree	Instantaneous tilt angle, measured at 1Hz		✓	✓	✓
6854	Total Max 2-9 Bin Magnitude	Float	Volt			✓	✓	✓
6856	Total Max 2-9 Freq	Float	Hz			✓	✓	✓
6858	Total Max 8-150 Bin Magnitude	Float	Volt	Deprecated in firmware version 3.9.7		✓	✓	✓
6860	Total Max 8-150 Freq	Float	Hz	Deprecated in firmware version 3.9.7		✓	✓	✓
6862	L1 Max 2-9 Bin Magnitude	Float	Volt			✓	✓	✓
6864	L1 Max 2-9 Freq	Float	Hz			✓	✓	✓
6866	L1 Max 8-150 Bin Magnitude	Float	Volt	Deprecated in firmware version 3.9.7		✓	✓	✓
6868	L1 Max 8-150 Freq	Float	Hz	Deprecated in firmware version 3.9.7		✓	✓	✓
6870	L2 Max 2-9 Bin Magnitude	Float	Volt			✓	✓	✓
6872	L2 Max 2-9 Freq	Float	Hz			✓	✓	✓
6874	L2 Max 8-150 Bin Magnitude	Float	Volt	Deprecated in firmware version 3.9.7		✓	✓	✓
6876	L2 Max 8-150 Freq	Float	Hz	Deprecated in firmware version 3.9.7		✓	✓	✓
6878	L3 Max 2-9 Bin Magnitude	Float	Volt			✓	✓	✓
6880	L3 Max 2-9 Freq	Float	Hz			✓	✓	✓
6882	L3 Max 8-150 Bin Magnitude	Float	Volt	Deprecated in firmware version 3.9.7		✓	✓	✓
6884	L3 Max 8-150 Freq	Float	Hz	Deprecated in firmware version 3.9.7		✓	✓	✓
6886	AN Energy Reset Year	Float	Year			✓	✓	✓
6888	AN Energy Reset Month	Float	Month			✓	✓	✓
6890	AN Energy Reset Day	Float	Day			✓	✓	✓
6892	PQube Time Year	Float	Year			✓	✓	✓
6894	PQube Time Month	Float	Month			✓	✓	✓
6896	PQube Time Day	Float	Day			✓	✓	✓
6898	PQube Time Hour	Float	Hour			✓	✓	✓
6900	PQube Time Minute	Float	Min			✓	✓	✓
6902	PQube Time Second	Float	Second			✓	✓	✓
6904	Ext_Probe_1_Trigger_Snapshot	Write	1	Writing to this register triggers a Probe A accelerometer snapshot event		✓	✓	✓
6906	Ext_Probe_2_Trigger_Snapshot	Write	1	Writing to this register triggers a Probe A accelerometer snapshot event		✓	✓	✓



Analog / HF Bank								
Offset	Register	Format	Units	Comments	PQube			
					CL	3	3e	3v
6908	Ext_Probe_1_Firmware_Version	Float	-	Probe 1 firmware version		✓	✓	✓
6910	Ext_Probe_2_Firmware_Version	Float	-	Probe 2 firmware version		✓	✓	✓
6912	Ext_Probe_1_Model_Number	Float	-	Probe 1 model number (1,2,3) for ENV1, ENV2, or ENV3		✓	✓	✓
6914	Ext_Probe_2_Model_Number	Float	-	Probe 2 model number (1,2,3) for ENV1, ENV2, or ENV3		✓	✓	✓
6916	Ext_Probe_1_ThermoCouple_1_Temp	Float	Degree C	Not supported				
6918	Ext_Probe_1_ThermoCouple_2_Temp	Float	Degree C	Not supported				
6920	Ext_Probe_1_Acceleration_Min_X	Float	G or Meters per Second ²	Minimum X axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6922	Ext_Probe_1_Acceleration_Avg_X	Float	G or Meters per Second ²	Average X axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6924	Ext_Probe_1_Acceleration_Max_X	Float	G or Meters per Second ²	Maximum X axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6926	Ext_Probe_1_Acceleration_Min_Y	Float	G or Meters per Second ²	Minimum Y axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6928	Ext_Probe_1_Acceleration_Avg_Y	Float	G or Meters per Second ²	Average Y axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6930	Ext_Probe_1_Acceleration_Max_Y	Float	G or Meters per Second ²	Maximum Y axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6932	Ext_Probe_1_Acceleration_Min_Z	Float	G or Meters per Second ²	Minimum Z axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6934	Ext_Probe_1_Acceleration_Avg_Z	Float	G or Meters per Second ²	Average Z axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6936	Ext_Probe_1_Acceleration_Max_Z	Float	G or Meters per Second ²	Maximum Z axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6938	Ext_Probe_1_Vector_Acceleration_Amplitude_Min	Float	G or Meters per Second ²	Minimum vector acceleration amplitude over the last second, measured at 32 HZ		✓	✓	✓
6940	Ext_Probe_1_Vector_Acceleration_Amplitude_Avg	Float	G or Meters per Second ²	Average vector acceleration amplitude over the last second, measured at 32 HZ		✓	✓	✓
6942	Ext_Probe_1_Vector_Acceleration_Amplitude_Max	Float	G or Meters per Second ²	Maximum vector acceleration amplitude over the last second, measured at 32 HZ		✓	✓	✓
6944	Ext_Probe_2_ThermoCouple_1_Temp	Float	Degree C	Not supported				
6946	Ext_Probe_2_ThermoCouple_2_Temp	Float	Degree C	Not supported				
6948	Ext_Probe_2_Acceleration_Min_X	Float	G or Meters per Second ²	Minimum X axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6950	Ext_Probe_2_Acceleration_Avg_X	Float	G or Meters per Second ²	Average X axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6952	Ext_Probe_2_Acceleration_Max_X	Float	G or Meters per Second ²	Maximum X axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6954	Ext_Probe_2_Acceleration_Min_Y	Float	G or Meters per Second ²	Minimum Y axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6956	Ext_Probe_2_Acceleration_Avg_Y	Float	G or Meters per Second ²	Average Y axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6958	Ext_Probe_2_Acceleration_Max_Y	Float	G or Meters per Second ²	Maximum Y axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6960	Ext_Probe_2_Acceleration_Min_Z	Float	G or Meters per Second ²	Minimum Z axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6962	Ext_Probe_2_Acceleration_Avg_Z	Float	G or Meters per Second ²	Average Z axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6964	Ext_Probe_2_Acceleration_Max_Z	Float	G or Meters per Second ²	Maximum Z axis acceleration over the last second, measured at 32 HZ		✓	✓	✓
6966	Ext_Probe_2_Vector_Acceleration_Amplitude_Min	Float	G or Meters per Second ²	Minimum vector acceleration amplitude over the last second, measured at 32 HZ		✓	✓	✓
6968	Ext_Probe_2_Vector_Acceleration_Amplitude_Avg	Float	G or Meters per Second ²	Average vector acceleration amplitude over the last second, measured at 32 HZ		✓	✓	✓
6970	Ext_Probe_2_Vector_Acceleration_Amplitude_Max	Float	G or Meters per Second ²	Maximum vector acceleration amplitude over the last second, measured at 32 HZ		✓	✓	✓
7122 ~ 7696	HF 8kHz~150kHz HF avg registers	Float	Volt	See above 8kHz~150kHz section		✓	✓	✓



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