

DigiTemp

DCT150M-W

WIRELESS DIGITAL THERMOMETER FOR TANKS AND TANK CONTAINERS

The DigiTemp DCT150M-W thermometer provides reliable, economic and accurate temperature monitoring for tanker and tank container operators, with a wide temperature operating range from -50°C to +150°C and a battery life of 7 years with no maintenance.

The DCT150M-W wireless thermometer provides real-time updates of temperature readings to communication gateways including satellite systems operating in the IEEE 802.15.4 frequency range.

KEY FEATURES

- Large, highly visible LCD display.
- Guaranteed for 6 years on all parts.
- Durable, tough case that is waterproof to IP67 and which eliminates surface electrochemical corrosion problems.
- Polycarbonate impact resistant front face.
- Easy installation – drilled for pop rivet or screw fixing.
- Suitable for new and older tanks as replacement for mechanical thermometers.
- No moving parts to fall off or wear out.
- Min/Max display (option) can be used with security key.
- Data logging option for later download via NFC on mobile phone.
- Radio interface for satellite and other third party monitoring systems.
- Zero maintenance.
- ATEX Certified.
- Optional detachable temperature sensor.



APPLICATIONS

The DigiTemp Digital Electronic Tank Thermometers are used in the transportation of hazardous and non-hazardous chemicals, pharmaceuticals, food products and beverages to monitor temperatures at all stages of product transportation from initial fill through to delivery.

The unit monitors temperature using a rugged compact temperature sensor on the end of a flexible lead which can be either directly mounted on the metal surface of the tank or within a thermowell.

The display is surface mounted on the exterior of the tank with an easy to read large size digital display which continuously shows temperature in degrees Celsius/Fahrenheit.

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TECHNICAL SPECIFICATIONS

Range	DCT150M-W: -50°C to +150°C/58°F to 302°F	
Sensor	PT1000	
Accuracy	0°C to +100°C typically 0.9°C +/- one digit 150°C typically 2.0°C +/- one digit -50°C typically 1.0°C +/- one digit	
Sample Time	Variable – 60 seconds provides typical 7 year life	
Lead Length	1 metre (customised lengths up to 15m available upon request)	
Display	4 Digits, 7 segment LCD (optional Fahrenheit °F configuration)	
Resolution	1°C	
Dimensions	ø150 × 40mm (rear cut out ø100mm)	
Fittings	6 fixing holes (ø = 5) equispaced on a 135mm PCD	
Enclosure	Glass fibre reinforced nylon with fully integrated sealed polycarbonate front face Sensor enclosed in ø6mm x 50mm sheath Stainless steel	
Protection class	IP67	
Serial Number	Displayed on front face with year of manufacture	
Weight	500g	
Energy	Battery	Lithium Thionyl Chloride
	Nominal Battery Voltage	3.6V
	Battery Capacity	4.8Ah
	Battery Certification	UN38.3 Certified
Environmental	Operating Temperature	-50°C ... 150°C
	Atex Ambient Temperature	-35°C ... 60°C
IEEE 802.15.4	Frequency Range	2405 MHz...2480 MHz

EQUIPMENT/SERVICE OPTIONS

Optional Stainless steel fitting for alternative fitting method in high temperature conditions (+150°C)

Customised stainless steel thermowells

Optional Fahrenheit (°F) display

Low cost refurbishment service to 'as new' condition for extended product life

Quantum Production has a policy of continuous improvement and we reserve the right to upgrade or change specifications without prior notice. Full technical specifications are available upon request.



DCT150M-W	Digital electronic thermometer ranging from -50°C to +150°C with PT1000 sensor.	
Environment	RoHS WEEE IP67	WEE/MP3538PZ/SCH
ATEX**	ATEX Certification No: SGS20ATEX0001X EN IEC 60079-11 2018 EN 60079-11 2012 EXII 2 GD Ex ib IIC T4...T3 Gb Ex ib IIIC T135°C...T184°C Db 2014/34/EU	
EMC	ETSI 301 489 EN 55024	
Battery	UN38.3	



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