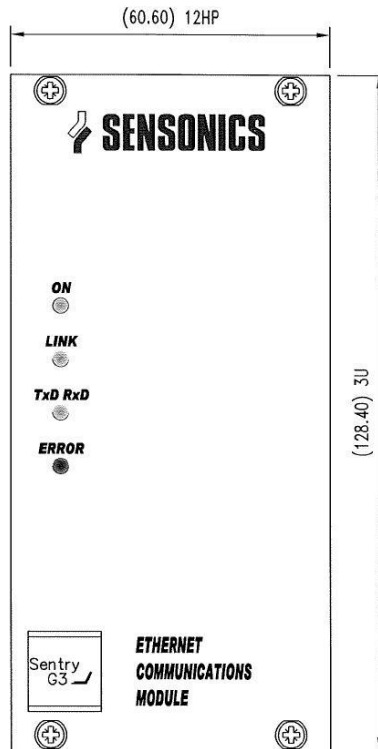




**MO8701G3 MODBUS/TCP COMMUNICATIONS
RACK MODULE**



- MODBUS Slave TCP Interface
- Remote Access
- Measurement and Alarm
- Up to 128 channels
- IP Address Configurable
- Easy to configure
- Fits Standard Sentry G3 Rack

The Sentry G3 TCP/IP Communications module is designed to provide Modbus over TCP connectivity to the Sentry G3 module parameters. The module performs as a bridge between the TCP and RS485 Modbus protocols. The module can only be located in slot 6 of the G3 racking system which permits access to the RJ45 sockets through the rear of the rack.

The communication module provides connection for up to 32 Sentry G3 modules or 128 measurement channels through the Sentry G3 RS485 integrated back-plane bus. Multiple racks can be connected to a single MO8701 by daisy chaining the serial port from rack to rack.

The MO8701 communicates to each Sentry module via the RS485 parallel bus through a unique address set up on each module via the configuration software. The module behaves as a MODBUS TCP Slave on the network providing access to measured parameter values, alarm levels and alarm status for each channel.

M08701G3

TECHNICAL SPECIFICATION

LAN

Ethernet 10/100 Mbps, RJ45, Auto MDI/MDIX
Protection Built-in 1.5KV magnetic isolation

Serial Interface to backplane

Interface RS-485
No. of Ports 1 port
Signals RS-485 (2-wire): Data+, Data-, GND
Data Rate 19200 baud
Start bit 1
Stop bit 2
Data bits 8
Modbus Mode RTU

Power Consumption

200mA max, 24Vdc, through rack +24V backplane power supply

Front Panel Indicators

ON – Indicates **green** when module is correctly powered on.
Power supply fault results in LED turning off.

LINK – Indicates **green** when the unit is operating correctly.
LINK will flash when the LOCATE function is successful (see software configuration). Off indicates faulty module.

TxD RxD – Flashes **green** when communicating RS485 data through the bridge in either direction.

ERROR – Indicates **red** when the unit is in error or an IP conflict.
Indicates **red** while module booting on power up.

Alarm Relays

PSU OK Normally energised, non-latching, change over contacts
COMMS OK Normally energised, non-latching, change over contacts
Both SPST configuration (250VAC / 1A)

Temperature

Operating -30°C to +65°C
Storage -30°C to +85°C

DS1232



Sensonics Ltd
Northbridge Road
Berkhamsted
Herts, HP4 1EF
United Kingdom
Tel: +44 (0)1442 876833
Fax: +44 (0)1442 876477
www.sensonics.co.uk