Serial MODBUS Gateway

General Description

The OEMSensors.com™ Serial MODBUS Gateway (SMG) acts as a data concentrator for OEMSensors / Monnit wireless sensor networks. This device allows you to connect up to 100 wireless sensing devices, per gateway, to your existing serial MODBUS RS-232C and RS-485 sensing and control infrastructures.

OEMSensors has recognized the importance of using open standards like MODBUS, allowing wireless sensors to be used in the majority of industrial applications. Modbus is often used to connect a supervisory computer with a remote terminal unit (RTU) in supervisory control and data acquisition (SCADA) systems. Modbus allows for communication between many (approximately 247) devices connected to the same wired network. Therefore, OEM SMG's allows for seemingly unlimited wireless expansion of a traditional wired network.

A system incorporating an OEMSensors SMG would consists of the the following:

- MODBUS Master – PLC, SCADA, etc.

- Existing RS-232C or RS-485 Infrastructure.

- OEMSensors Serial MODBUS Gateway (SMG).

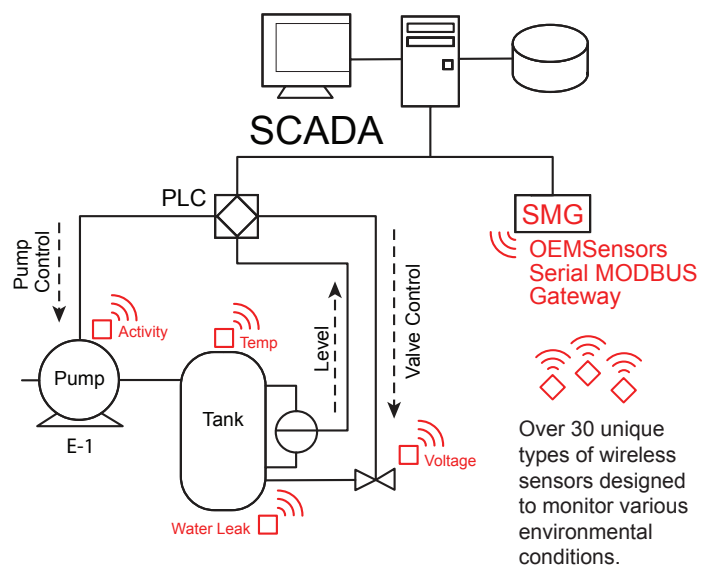- OEMSensors / Monnit Wireless Sensors.

Applications

- Process automation protocols
- Industrial control system protocols
- Building automation protocols
- Power system automation protocols
- Automatic meter reading protocols
- Automobile / Vehicle protocol buses
- In any existing MODBUS system

OEMSensors.com Serial MODBUS Gateway Product Features

- Works with OEMSensors and Monnit 900, 868 and 433MHz Sensor Networking Solutions
- Communicates with MODBUS RTU / ASCII Serial Protocols
- Supports RS-232C / RS-485 Interfacing
- Power Indicator LED Indicator???
- NEMA 4X / IP66 Rated Enclosure
- RP SMA Antenna Connector (Antenna Included)

Example Network Integration

OEMSensors / Monnit wireless sensors integrate with existing MODBUS systems allowing for additional environmental variables to be monitored.

Over 30 unique types of wireless sensors designed to monitor various environmental conditions.

OEM Serial MODBUS Gateway Specifications

General

OEMSensors / Monnit APN Interface Support	RFSC1 Module by OEMSensors / Monnit Frequencies: 433, 868 and 900 MHz (Future support for WiFi and 500 mW modules)
Antenna	Connector: SMA Gain: 5.0 dBi Standard

3 Wire Communication Interface

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RS-232C	TXD (OUT), RXD (IN), and Ground / Common
RS-485	D+, D-, and Ground / Common
Protocol Selector	Jumper for RS-232 and RS485

Power

Input Voltage Range	5.5 - 36.0 VDC
Minimum Current Required	100mA (500mA Recommended)

Mechanical

LEDs	Wireless Activity, Wired Activity, System Status
Reset Feature	Communication / Factory Settings Reset Jumper
Enclosure	Durable, Impact-Resistant UV Stabilized Polycarbonate (IP65 of IEC 529 and NEMA 1, 2, 4, 4x, 12 and 13 Rated)
Dimensions	179.603 x 90.678 x 41.30 mm
Weight	16 ounces

Environmental

Operating Temperature	-40 to +85 °C (-40 to +185 °F)
Certifications: FC CE Industry Canada	900 MHz product; FCC ID: ZTL- RFSC1 and IC: 9794A-RFSC1. 868 and 433 MHz product tested and found to comply with: CISPR 22:2008-09 / EN 55022:2010 - Class B and ETSI EN 300 220-2 V2.4.1 (2012-05).

4.528 in (139.700 mm)

2.559 in (90.678 mm)

7.07 in (179.603 mm)

1.579 in (41.300 mm)
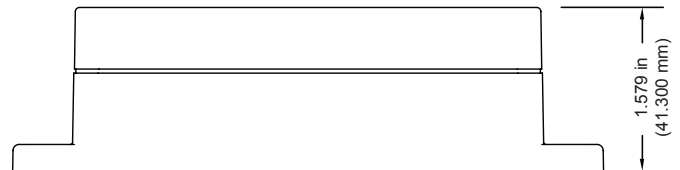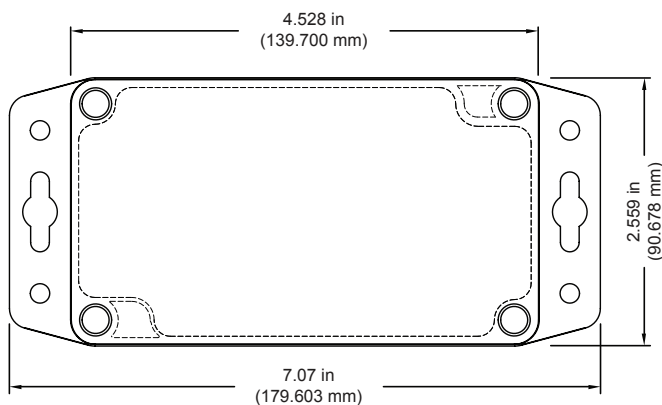
For more product information, to get a quote, or to place an order, please contact our sales department at 801-561-5555 or visit us on the web at www.oemsensors.com.

OEM Sensors.com™