

The Leader in Low-Cost, Remote Monitoring Solutions

Serial MODBUS Gateway



The Monnit Serial MODBUS Gateway (SMG) acts as a data concentrator for Monnit wireless sensor networks. This device allows you to connect up to 50 wireless sensing devices, per gateway, to your existing serial MODBUS RS-232C and RS-485 sensing and control infrastructures.

Monnit has recognized the importance of using open standards like MODBUS, allowing Monnit 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, Monnit SMG's allows for seemingly unlimited wireless expansion of a traditional wired network.

A system incorporating a Monnit SMG would consists of the following:

- MODBUS Master PLC, SCADA, etc.
- Existing RS-232C or RS-485 Infrastructure
- Monnit Serial MODBUS Gateway (SMG)
- Monnit Wireless Sensors

Applications

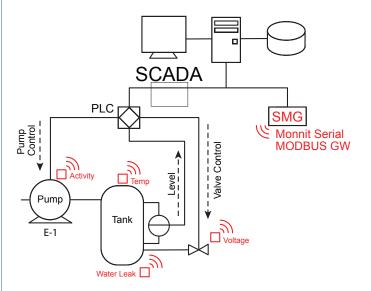
- Process automation protocols
- Industrial control system protocols
- Building automation protocols
- Power system automation protocols
- Automatic meter reading protocols
- Automobile / Vehicle protocol buses
- In any existing MODBUS system

Features

- Works with Monnit 900, 868 and 433MHz Sensor Networking Solutions
- Communicates with MODBUS RTU / ASCII Serial Protocols
- Supports RS-232C / RS-485 Interfacing
- LED Status Indicators
- NEMA 4X / IP65 Rated Enclosure
- RP SMA Antenna Connector (Antenna Included)

Example Network Integration

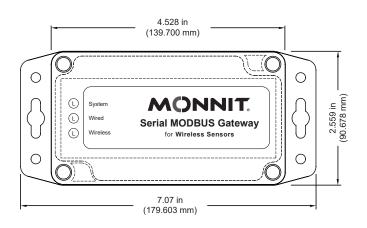
Monnit wireless sensors integrate with existing MODBUS systems allowing for additional environmental variables to be monitored.





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

Monnit Serial MODBUS Gateway Specifications General		
	DE004 Market La Maraite	
Monnit Radio Support	RFSC1 Module by 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 Interfac		
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	4.5 - 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°C to +85°C (-40°F to 185°F)	
Storage Temperature	-40°C to +85°C (-40°F to 185°F)	
Certifications:	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).	



	in mm



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For more information about our products or to place an order, please contact our sales department at 801-561-5555.

Visit us on the web at <u>www.monnit.com</u>.