

# MODBUS STICK

Potted electronics, a high-gain antenna, and a multi-mount aluminum base all contained in a high-impact polycarbonate "Stick".

LONG RANGE 3+ MILES

PROVIDES A WIRELESS INTERFACE TO A MODBUS DEVICE

MESSAGE-FORWARDING CAPABILITY

LOW POWER CONSUMPTION

SIMPLE TO INSTALL AND MAINTAIN



## FEATURES

- Potted electronics, a high-gain antenna, and a multi-mount aluminum base all contained in a high-impact polycarbonate "Stick."
- Provides a wireless interface to remote Modbus sensors
- RS485 Modbus RTU interface (RS232 also available)
- Supports multiple Modbus devices
- Automatically reads and transmits sensor registers at user-definable intervals
- Outbound capability for sensor Modbus register updates
- Writes Modbus registers
- Message-forwarding / mesh-networking capability
- Rugged design for demanding outdoor industrial environments
- Range up to 3 + miles
- Simple to install and maintain
- Class 1 Division 2, Temp Code T5, Groups C&D. Conforms to ISA 12.12.01 and UL 916, Certified to CSA C22.2 No. 142 and CSA C22.2 No. 213

## MODELS

### Multi-IO Module (MIOM)

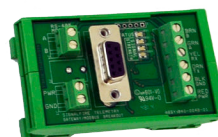
- 8 Analog Inputs
- 6 Digital Inputs
- 4 Relay Outputs

### Modbus

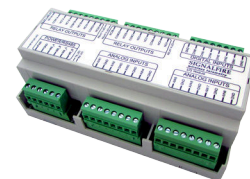
- RS485 interface (RS232 available)
- Automatically reads and transmits sensor registers at user-definable intervals
- Writes modbus registers

### Mirroring

- Mirrors the configured data-registers from gateway
- Gateway data available to be read by RTU device



SignalFire Breakout Board connects easily for modbus applications.



Multi-IO Module (MIOM)

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## TECHNICAL SPECIFICATIONS

### Operating Temp

-40°C to 70°C

### Humidity

0% – 100% condensing

### Power

6-36 VDC

### Data Interface:

Modbus RS485

### Data Update Rates:

User configurable with configuration utility

### Radio Power:

500 mW

### Antenna Type:

Omnidirectional

### Antenna Gain:

5dB

### Receive Sensitivity:

-105 dB

### Frequency:

902-928 MHz license-free ISM band compliant with FCC Part 15

### Range:

3+ miles (line of sight)

### Networks:

Up to 65,520 separate networks

### Enclosure:

Weather-tight integrated electronics and antenna. Integrated cable (25' standard)

### Internal Diagnostics:

Line voltage, Signal strength, Error conditions

### Safety Rating:

Class 1 Division 2 Certified, Groups C&D, Temperature Code T5. Certified to CSA C22.2 No. 213, Conforms to ISA 12.12.01

## STANDARD CONFIGURATION ORDER CODES

INTERFACE	ORDER CODE
RS485	MBS-CBBL
MIOM	MBS-MOIM-CBBL