

C1D1 MULTI INPUT NODE

Multiple-input module is certified intrinsically safe for use in hazardous environments.

MULTIPLE INPUTS

DIGITAL DISPLAY

HAZARDOUS AREA SAFE

SIMPLE TO INSTALL AND MAINTAIN



The Multi-Input, Hazardous-Area system is rated for use in Class 1 Division 1 areas and can power a sensor from its internal battery pack. Available with or without an integrated LCD display for data review in the field. The intrinsically safe battery pack can be changed in place without a work ticket.

FEATURES

- Class 1 Division 1 Intrinsically Safe System
- Battery Powers System and Sensor for up to 3 years
- Multiple Inputs
 - 1 Multi-Drop HART® Channel (supports up to 4 HART field devices)
 - 2 4-20 MA OR 1-5V Channels
 - 2 Digital Input Channels
- Integrated High-Gain Omnidirectional Antenna
- Rugged Watertight Enclosure
- Up to 1/2 Mile Range
- Sensor Independent
- Part of the SignalFire Remote Sensing System Mesh Network
- 1/2" NPT Wiring/Conduit Interface
- 915 MHz, FHSS Radio

STANDARD CONFIGURATION ORDER CODE

ORDER CODE	DESCRIPTION
MC1D1-3BIS-D	Multi Input System, Class 1 Div 1, HART, 4-20, 1-5V, Battery Powered, with Display
MC1D1-3BIS-ND	Multi Input System, Class 1 Div 1, Hart, 4-20, 1-5, Battery Powered, No Display



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TECHNICAL SPECIFICATIONS

Operating Temp

-40°C to 60°C

Humidity

0% – 100% condensing

Sensor Power

18V for 4-20 mA Current Loop or HART Sensors. Sensor power is provided from the system, no need for external sensor power, no barriers required.

Battery Life

1–4 years depending on the number and type of sensors and reporting frequency

Data Interface

Wireless – Available as Modbus Registers at Gateway

Supported Sensor Interfaces

HART (up to 4 devices), 4-20 mA Current, Loop, 1-5 Volt, Digital Input (State, Counter, Totals, Frequency)

Display

Externally visible display shows communications status and sensor readings

Data Update Rates

User-selectable, 5 seconds to 1 hour, typical

Radio Power

10mW

Antenna Type

External Weather Resistant, Omnidirectional

Antenna Gain

5 dB

Receive Sensitivity

-105 dB

Frequency

902–928 MHz, FHSS, License Free ISM Band Compliant with FCC Part 15

Range

1/2 Mile (Line of Sight, Real World) careful placement

Networks

Up to 65,520 separate networks

Enclosure

Fiberglass Reinforced UV Stabilized Polycarbonate

Intrinsically Safe

Class 1 Division 1, Temp Code T3, Groups C&D. Conforms to UL Std. 913, Certified to Can/CSA Std C22.2 No. 157

Internal Diagnostics

Battery Voltage, Signal Strength, Error Conditions