

A2 LONG RANGE

Long-range, multiple-input modules for sophisticated data transmission over distances of up to three miles between nodes.

POWERS SENSOR AND RADIO FOR YEARS WITH A BATTERY

RUGGED DESIGN FOR DEMANDING OUTDOOR ENVIRONMENTS

UP TO A 3-MILE RANGE

AUTOMATICALLY CONFIGURES AS A STAR OR MESH NETWORK

SIMPLE TO INSTALL AND MAINTAIN



FEATURES

- Powers sensor and radio for years with an internal battery
- Optional solar power package
- Costs less than 60ft of installed conduit
- Rugged design for demanding outdoor environments
- Up to 3-mile range
- Sensor independent
- 1/2" NPT conduit interface
- Automatically configures as a star or mesh network
- Simple to install and Maintain



MODELS

A2

Monitor two analog sensors and one digital input:

- 4-20 mA current loop sensor
- 1-5 V sensor
- Digital input/counter

HART

Monitor one HART® loop and one digital input:

- HART (1-4 sensors)
- Digital input/counter

Modbus

Monitor one or more Modbus sensors

Thermocouple/Digital Input

Monitor one thermocouple and one digital input

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TECHNICAL SPECIFICATIONS

Operating Temp

-40°C to 85°C

Humidity

0% – 100% condensing

Power

3 X D Lithium battery pack. Field replaceable.

Sensor Power

12.5 or 18V Jumper selectable for 4-20mA current loop, 1-5V, or HART sensors. Sensor power is provided from the system, no need for external sensor power

Battery Life

1-10 years depending on the type of sensor and reporting frequency

Data Interface

Wireless – available as Modbus registers at Gateway

Data Update Rates

User Selectable Rotary Switch from 5 sec to 2 hours

Supported Sensor Interfaces

Analog (4-20mA/1-5V)
Digital input
HART
RS485 Modbus RTU
K-Type Thermocouple

Radio Power

300 mW

Antenna Type

External Weather Resistant, Omnidirectional

Receive Sensitivity

-105 dB

Frequency

902-928 MHz License Free ISM Band
Compliant with FCC Part 15

Range

Up to 3 Miles (Line of Sight)

Networks

Up to 65,520 separate networks

Enclosure

Aluminum, NEMA 4X Rated

Internal Diagnostics

Battery voltage, signal strength, error conditions

STANDARD CONFIGURATION ORDER CODES

SENSOR TYPE	POWER SOURCE	ORDER CODE
2 Analog (1-5V or 4-20 mA)	Battery	A2-A2D1-3B
HART	Battery	A2-HART-3B
RS-485/Modbus	Battery	A2-485-3B
K Type Thermocouple	Battery	A2-KTHERM-3B