

XR Series Wireless Analog Input

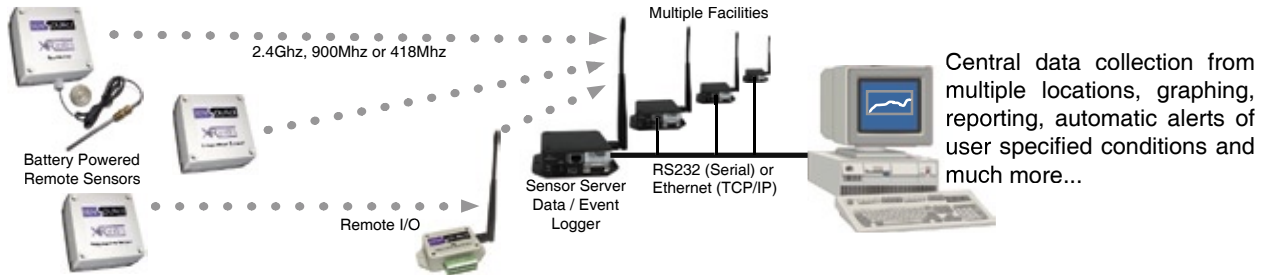
Main Features

- Measures analog input level (0-10v, 0-5v, 0-20ma)
- 12 bit analog to digital conversion
- Built-in frequency hopping radio for long-range wireless interface
- Range: Up to one mile (LOS) with 900Mhz version
- Up to 100 sensors can coexist
- Battery lasts up to 5 years
- Small NEMA 4X Sealed Enclosure
- Integrated antenna
- Remote sensing, monitoring, data collection, reporting, and automatic email notification of sensor concerns
- OPC Server available

900Mhz
2.4Ghz



418Mhz



Description:

This device is a battery operated 12 bit analog to digital converter with a microprocessor controlled radio transmitter. When used together with a XR9-UOM (Universal Output Module) it can be used as a remote sensor duplicating it's analog input on the remote UOM analog output. It spends most of it's time in a low power quiescent state. At predetermined time intervals the microprocessor will wake up for 15ms to transmit a short data string to a remote receiver (Sensor Server). The data string contains the device type, unique serial number, current value and CRC-16 data integrity check. A tamper-resistant switch allows the user to activate or deactivate the sensor if necessary. When used together with a PCW-SSRX Sensor Server, multiple sensors can be monitored using any web browser or with Server Manager Software. Historical data can be retrieved from one or more facilities by one PC located on a WAN/LAN (Network) using Ethernet (TCP/IP) or directly to a PC using serial (RS232) communication. (for more information please request a Sensor Server Brochure). Server Manager Software can be used to configure and manage hardware, gather and report on data, and send automatic notification of sensor values.

Ordering:

418Mhz - P/N: XR4-AN5V (0 - 5v DC), P/N: XR4-AN10V (0 - 10v DC), P/N: XR4-AN20A (0 - 20mA DC)
 900Mhz - P/N: XR9-AN5V (0 - 5v DC), P/N: XR9-AN10V (0 - 10v DC), P/N: XR9-AN20A (0 - 20mA DC)
 2.4Ghz - P/N: XR24-AN5V (0 - 5v DC), P/N: XR24-AN10V (0 - 10v DC), P/N: XR24-AN20A (0 - 20mA DC)

Technical Data:

Input (0-5v)	100k ohms, 0-5 volt, 12-bit resolution, 4.99v=4095
Input (0-10vdc)	62k ohms, 0-10 volt, 12-bit resolution, 9.99v=4095
Input (0-20mA)	120 ohms, 0-20.83 milliamp, 12-bit resolution, 20mA=3932
Standard Transmission rate	Preprogrammed at factory 10 - 17 sec (418Mhz) / 5 minutes (900Mhz, 2.4Ghz)
Max. Transmission Range (LOS)	1 mile (900Mhz), 2500ft (2.4Ghz), 600ft (418Mhz)
Transmission Range (Indoor)	1300ft (900Mhz), 400ft (2.4Ghz), 200ft (418Mhz)
Shelf life with battery installed	10 Years in quiescent mode
Battery life with transmissions	5 years with standard transmission rate
Weight	1.5oz (418Mhz) / 4.7 oz. (900Mhz, 2.4Ghz)
Operating Temperature	-40° to 85° C
Humidity	0% to 90% non-condensing

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