

DREXELBROOK[®]

Wireless Interface Solutions

Wireless I/O Interface DIN Rail Transmitter / Receiver Set



2867102-DRX



OMNEX
Trusted Wireless

Features

- 1 watt transmit power
- Wireless conduit for one 4-20 mA and two digital signals
- Interference free - Frequency Hopping Spread Spectrum technology
- License free 902-928 MHz Industrial, Scientific and Medical (ISM) band
- Easy to use, wire in – wire out, no setup or programming
- Range: 600 – 1000 feet in-plant, no line-of-sight
- Class I, Division 2 approved for hazardous area installation (UL, CUL and CSA approved)

Applications

- SCADA systems
- PLC/RTU extensions
- Pump control
- Water / Wastewater
- Oil and gas
- Petrochemical
- Tank level
- Mills / Quarries / Factories
- Sensor monitoring
- Utilities
- Irrigation systems

Benefits

- Reduce cost of labor and installation
- Eliminate conduit and wiring
- Reliable and dependable operation

Frequency Hopping Spread Spectrum Technology

The Ametek Drexelbrook 2867102-DRX is an integrated radio & I/O module designed to eliminate cable and conduit for one 4-20 mA current loop and two digital signals in harsh industrial environments. This unique addition to the Ametek Drexelbrook signal conditioning line utilizes 902-928 MHz ISM band spread spectrum frequency hopping technology to guarantee a license free, interference free link between remote devices and the control room. Costly cable and conduit runs on new projects, or retrofitting of existing systems, are eliminated and replaced with a maintenance free, reliable and versatile wireless solution.

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Technical Specifications

Transmit Power:	1 watt
Range:	600-1000 feet, in-plant, no line-of-sight 4-5 miles, line-of-sight, flat terrain, raised antennas 20+ miles, line-of-sight, flat terrain, professional propagation study, installation and directional antennas
Frequency:	902-928 MHz
Power Source:	12 V to 30 VDC (regulated)
Power Consumption:	8.4 watt peak, 1.8 watt average (350 mA @ 24 Vdc peak, 75 mA @ 24 Vdc average)
Inputs:	1 x 4-20 mA analog (250 W input impedance) 2 x 5 to 30 VAC / DC digital (for 120 VAC discrete inputs use relays to convert to specified voltage levels)
Outputs:	1 x 4-20 mA analog (12-bit resolution) 3 x 120 VAC 0.5 digital (dry contact)
Max. Loop Impedance:	150 to 1350 ohms for power supply voltages of 12-30 VDC (VIN-9V/20mA)
Repeatability:	0.02%
Accuracy:	0.2% of full scale

General Specifications

Temperature Rating:	-40° to +70°C (-40° to +158°F)
Dimensions:	102 x 114 x 17.5 (mm) 4 x 4.5 x 0.7 (inch)
Approvals:	UL Listed (Class 1, Division 2 Groups A, B, C and D).