4-20mA Input Smart Sensor Weatherproof Enclosure

PRODUCT OVERVIEW

The CURR-1022-N Smart Sensor is a wireless current sensing device which accepts two 0/4-20 mA signals and is a component of the SensiNet wireless sensor network. It report highly accurate , real-time measurements without wires and is FCC and CE-approved for license free operation .

The CURR-1022-N has on board batteries for complete tether free operation or can be equipped with an external DC (10-30VDC) power supply which will simultaneously power two loop powered transmitters and the CURR-1022.

Smart Sensor Benefits

Simple - Install and turn on...the system does the rest. Over the air configuration through standard web browsers eliminates complicated software. Sensors can even receive firmware updates over the network.
Robust - Rugged electronics combined with extensive self diagnostics provide a rock solid measurement system which continually monitors and reports system health such as battery voltage and connection status
Accurate - Self calibration and auto zero eliminates errors due to drift.

SensiNet Network Benefits

Reliable - Mesh networking provides multiple acknowledged and error checked communication paths ensuring the message always gets through while spread spectrum , frequency hopping radio technology eliminates interference effects. The network is also self healing and able to recover from interruptions by seeking alternate paths.
Flexible - Move, add or eliminate sensors and the network reconfigures itself automatically.
Universal - Multiple protocols including Modbus, OPC , SNMP, ODBC, and Web Services ensure system compatibility or operate the system as a stand alone data logging system with local or web based logging.
Scalable - The same network can start with a single point and grow to thousands without replacing any components or performance degradation.

Model: CURR-1022-N

SPECIFICATIONS

Radio Specifications	
Radio	IEEE 802.15.4 compliant, 2.4 GHz DFSS
Regulatory	FCC Part 15 and CE Approval
Antenna	Internal antenna
Output power	15 dBm
Range (sight)	• Up to 700 ft/212m range (outdoor, line of sight) • Up to 230 ft/70m range (typical indoor conditions)
Operating temperature	-10° C to 50° C
Operating humidity	Up to 100% non-condensing
Power options	• C Size 3.6 lithium thionyl chloride battery +10 tp +30 VDC
Battery life	2 years at 2 minute reporting intervals
Update interval	User selectable 10 sec to 60 minutes
Dimensions	6.5"W x 6"H x 5"D 165 mm x 155 mm x 125 mm
Packaging	ABS Box - IP65 rated
Mounting	• Surface mount ears
Analog Input Specifications	
Analog channels	2 channels
Input range	0/4-20mA
Accuracy	0.1%
Resolution	12 bi (0.1%)
Zero drift	Auto-calibrating
Span drift	Auto-calibrating
Sensor terminal connection	• #28 to 14 AWG wire gauge • Clamping yoke connection