CYPRESS ENVIROSYSTEMS

WIRELESS GAUGE READER

(WGR-210-010-900-2)

FEATURES:

- Non-invasive, easy clamp on fit. No need to break seals.
- Fits 1.7 to 10+ inch diameter gauges from most manufacturers.
- Uses 900MHz LoRa compliant radio communications .
- Battery life up to three years on 15 minute sample rate.
- Low Battery indicator.
- NEMA4/IP66 enclosure for indoor/outdoor use.
- Accuracy of +/- 1.5% of full scale, comparable to typical person reading gauge.
- One-time calibration and setup.
- No new software to install – data can be view through standard browser (requires Green Box Controller).
- FCC, ROHS Compliant.
- Optional connectivity to existing plant or building automation systems via OPC, RESTful API, or BACnet/IP.
- Includes quick disconnect feature to allow unit to be removed and reattached without recalibration.

Non-invasively read manual gauges and wirelessly transmit the data to a PC, data acquisition or automation system.

- Monitor critical process or facility parameters and display on operator console
- Enable notifications when readings exceed limits
- Gather data to enable trend analysis, fault detection, or statistical process control
- Connect data to automation system to trigger actuation of motors, valves, pumps

The patented Wireless Gauge Reader (WGR) requires a fraction of the cost and time of installing conventional transducers or transmitters. It does not require the removal of old gauges, breaking pressure seals, learning new software, or disruption of plant processes.

Just clamp it on to an existing gauge and, in minutes, wirelessly acquire readings on an existing data acquisition or control system.

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KEY PRODUCT SPECIFICATIONS:

Gauge Compatibility:	Most gauges from 1.7” to 10” diameter
Gauge Mounting:	Adapters with removal clamps
Data Capture Rate:	User selectable from five second to 18 hour sample rate
Accuracy:	+/- 1.5% of full scale gauge reading
Wireless Frequency:	902.000 MHz to 928.000 MHz (LoRaWAN) and 2.4 GHz to 2.483 GHz (BLE)
Wireless Range:	500 to 1,500 ft in typical plant environments
Modulation Method:	LoRa® and Bluetooth Low Energy modulation
Approvals:	FCC CFR47, Part 15 Subpart C
Power Supply:	Two 3V lithium batteries, type CR123A. Maximum 0.35 mW.
Battery Life:	>1 year at 5 minute sample rate, >3 years at 1 hour sample rate
Vibration:	Up to 4G RMS
Humidity:	10-99% RH, non-condensing
Operating Temperature:	-4°F to 158°F (-20°C to 70°C)
Storage Temperature:	-40°F to 176°F (-40°C to 80°C)
Enclosure:	NEMA 4X, IP66 compliant (outdoor, water resistant)
Housing Material:	ABS with UV inhibitors
Display:	LCD display (not backlit) for manual reading
Dimensions:	2.6” x 2.6” x 1.3”
Weight:	0.33 lbs including batteries

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