CYPRESSSYSTEMS

FEATURES

- Non-invasive, easy clamp on fit - no need to break seals

- Fits 1.5" to 6" diameter gauges from most manufacturers

- Robust wireless – up to 300m, high interference immunity

- Battery life up to 5 years

- Low battery indicator

- NEMA Type 4, IP65 enclosure for indoor/outdoor use

- Accuracy +/- 1.5% of full scale, comparable to typical person reading gauge

- Single one-time calibration

- Connects to any I/O module/controller with analog inputs (0-5V, 0-10V, 4-20mA) using Cypress Systems' receiver

- Connects to Cypress Systems OPC Server for communication to external monitoring/operator stations
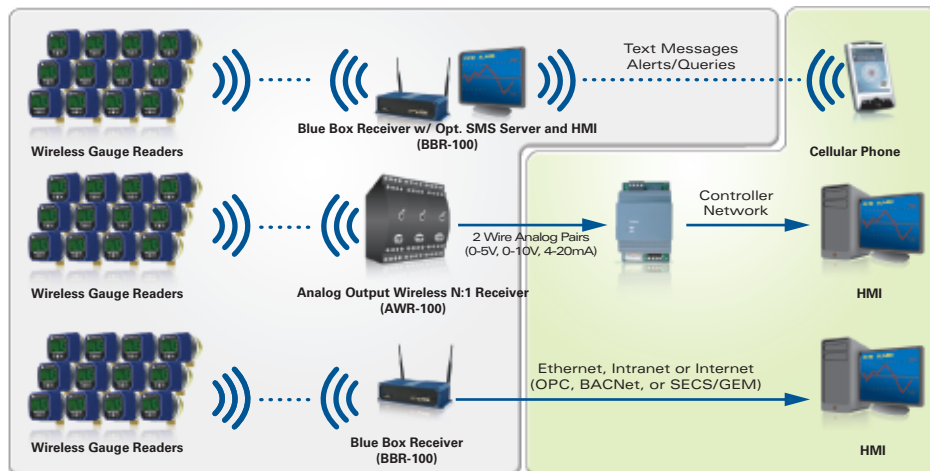
- RoHS compliant

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

- Monitor critical process or facility parameters and display on operator console

- Enable notification when readings exceed limits

- Gather data to enable trend analysis, or to apply statistical process control

- Connect gauge data to control system to trigger actuation of motors, valves and pumps

The Cypress Systems Wireless Gauge Reader costs a fraction of the time and money needed to install a new transducer. It does not require the removal of old gauges, breaking of pressure seals, learning new software, or interruption of the underlying process.

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

Three Possible Wireless Gauge Reader Configurations

PBWGR030801

KEY PRODUCT SPECIFICATIONS

WIRELESS GAUGE READER (WGR - 100)

Gauge Compatibility:	Most gauges from 1.5" to 6" (38mm to 150mm) diameter
Gauge Mounting:	Adaptors with removable clamps
Max Sample Rate:	1 sample/sec
Min Sample Rate:	1 sample/day
Accuracy:	+/- 1.5% of full-scale gauge reading e.g. +/- 1 psi for pressure gauge 0 to 100psi
Wireless Frequency:	2.4GHz Direct Sequence Spread Spectrum, 100mW peak output
Wireless Range:	Up to 300m, high interference immunity, extendable with repeaters
Wireless Protocol:	Cypress Semiconductor's WirelessUSB with robust security, optional encryption, and minimal interference with existing wireless systems (for additional details, please see FAQ at www.cypress.com/systems)
Approvals:	FCC Class B Compliant, RoHS Compliant
Power Source:	Two 3V Lithium batteries
Battery Life:	Approximately 1 year for 1 sample per 3min, 5+ years at 1 sample/hour
Operating Temperature:	-20°C to 70°C
Storage Temperature:	-40°C to +85°C
Enclosure:	NEMA Type 4, IEC IP65 compliant (outdoor, water resistant)
Display:	LCD Display (for manual reading)
Housing Material:	High Temperature ABS
Weight:	150g including batteries

RELATED PRODUCTS:

AWR-100: Wireless receiver which provides 0-5V, 0-10V, 4-20mA output for connection to analog input modules

BBR-100: Cypress Systems Blue Box server with integrated wireless receiver and HMI

WSS-100: Wireless System Server

All wireless devices use Cypress Semiconductor's industry-leading frequency agile protocols providing unmatched interference immunity and co-location capabilities.