

Available in standard pressure ranges

Rapid pressure sampling with configurable alarms and report by exception

Pushbutton or remote zeroing

Compact and simple to install and maintain

Rugged design for demanding outdoor environments

Internal battery powers integrated pressure sensor and radio for years

Up to ½ mile range

1/2" NPT Process connection standard

Class 1 Division 1, Intrinsically safe system

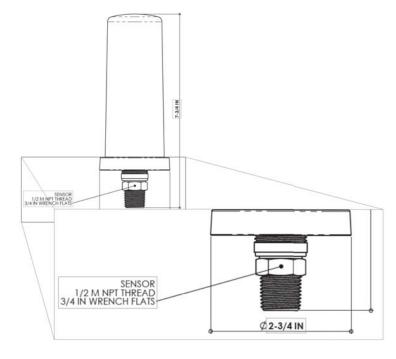
OVERVIEW

Rugged, Simple, Flexible, Value

FreeWave's new WC30i-PSI Modular Pressure Sensors are intrinsically safe wireless pressure sensors that are easily and quickly installed and deployed at a low-CAPEX or OPEX price point.

The WC30i Wireless Pressure Sensors are rated up to 10,000 psi with an accuracy <+/-0.25% BFSL.

Together with the WC45i Gateway, the WAVECONTACT system is easily and quickly deployed to implement industrial automation where wired installations would be cost prohibitive. The WAVECONTACT System has been designed for deployment in Class 1 Div 1 locations.



www.freewave.com LDS0014AA (Rev Feb-2018)



TECHNICAL SPECIFICATIONS

PRESSURE SENSOR SPECIFICATIONS @ 77°F/25°C

Over Range Protection2X Rated Pressure, MinimumBurst Pressure5X or 40,000 PSI (whichever is less)

Pressure Cycles >100 Million

Process Connection ½" NPTM 316L Stainless Steel Standard,

F250C Autoclave for pressure >

10,000 psi available.

Other process connections and/or

material available.

High Standard Pressure Ranges: 0-50 psi, 0-100 psi, 0-300 psi, 0-500 psi, 0-1000 psi, 0-3000 psi, 0-5000 psi, 0-7500 psi, 0-10,000 psi, 0-15,000 psi, 20,000 psi

Low Pressure Ranges: 0-1 psi, 0-2 psi, 0-5 psi, 0-7.5 psi 0-10 psi,

0-15 psi, 0-20 psi

Compensated Range 0° to 55°C

TC Zero / Span <±1.5% of FS

TRANSMITTER - RADIO

Data Update Rates User-selectable. 5 seconds to 1 hour,

typical

Radio Frequency 902–928 MHz, FHSS, license free

ISM Band Compliant with FCC Part 15

Range Up to ½ mile

Networks Up to 65,520 separate networks

Over the Air Rate 10kbps

RECEIVER - RADIO

Sensitivity -109dB

INTERFACES

Data Interface Wireless – available as Modbus

registers at Gateway

Internal Diagnostics Battery voltage, signal strength,

error conditions

DATA TRANSMISSION - RADIO

Report by Exception Configurable alarm pressure

thresholds, pressure sample rate

5 seconds (min).

POWER REQUIREMENTS - RADIO

Power "D" Cell Lithium battery pack. Field replaceable.

Class 1 Division 1 certified when used with FreeWave

system.

Battery Life 1–10+ years, depending on reporting

frequency.

Radio Power 40 mW

GENERAL INFORMATION - RADIO

Operating Temperature -40° to +80°C

Humidity 0% - 100% condensing

Size 7³/₄ in H x 2³/₄ in Diameter

½ in NPT thread, ¾ in Wrench Flats

Safety Intrinsically Safe

Class 1 Division 1, Temp Code T3, Groups C&D. Conforms to UL Std. 913, Certified to

Can/CSA Std C22.2 No. 157

INFORMATION TO ORDER

Model Number	Description
WC30i-PSI-1	WC30i Wireless P Sensor, 1PSI
WC30i-PSI-20	WC30i Wireless P Sensor, 20PSI
WC30i-PSI-100	WC30i Wireless P Sensor, 100PSI
WC30i-PSI-500	WC30i Wireless P Sensor, 500PSI
WC30i-PSI-1K	WC30i Wireless P Sensor, 1,000PSI
WC30i-PSI-3K	WC30i Wireless P Sensor, 3,000PSI
WC30i-PSI-5K	WC30i Wireless P Sensor, 5,000PSI
WC30i-PSI-10K	WC30i Wireless P Sensor, 10,000PSI

SOLUTIONS







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UTILITIES

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