

WellMesh™ 10,000psi Pressure Sensor



DATASHEET

Part Number
WML-WSO-05012

Product Description

The WellMesh sensor measures precision pressure and temperature with the ease of installation of a dial gauge. Each sensor has a 5 year battery that powers the sensor and 2-way radio transceiver.

Specification

Sensor

Pressure Range: 0 to 10,000 psia
±0.5%
Temperature Range: -40 to +125°C*
±0.5°C across full range
Temperature resolution: 0.01°C
* Ambient operating temperature limited below

Environmental

Enclosure sealed to: IP67
Case materials: Inconel 625, Stainless Steel
Antistatic Nylon 12
Wetted Parts: NACE compliant Inconel 625
Weight: 400g
Pressure fitting: ½" NPT Male
Over pressure: 100% no effect on calibration
Burst Pressure: 200%
Exposure: UV resistant materials
Operating temperature: -10°C to +80°C
ATEX & IECEx Rating: Ex ia IIC T4 (T_{amb}=80°C)

Battery

Typical life: 5 years, at 15m intervals
Faster may reduce battery life
Type: Proprietary power module
Part No. WML-ELC-RMB-0001
Changing battery: Battery can be changed in Hazardous area by qualified Personnel without sensor removal

Radio Transceiver

Frequency: 2.4GHz
Power: 1mW
Range: Up to 100m line of sight
Compatible Receivers: USB, RS232, GSM/GPRS
Proprietary radio network

Functionality

Reporting Interval: 1 second to 18 hours
Programmable over the radio
Logging: Up to 6 weeks data logged
Internally in sensor
Other parameters: Reports calibration and service dates as well as device description, serial number and part number.
Memory type: Non volatile memory retains data



Scale approx1:1

Rev 3.0, November 2009. E&OE

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