PRESSURE RANGER

LTE-M Cellular Pressure Transmitter

CLASS 1 DIVISION 2 CERTIFIED

PLUG-&-PLAY, INSTANT CONNECTIVITY OF PRESSURE SENSOR TO THE CLOUD OVER CELLULAR NETWORKS

OPTIMIZED FOR BATTERY LIFE USING LATEST CELL MODEM
TECHNOLOGY LTE CAT M1

UTILIZES MQTT/SPARKPLUG-B COMMUNICATION FOR EASY INTEGRATION INTO THIRD-PARTY HOSTS



FFATURFS

- LTE CAT M1 connectivity to cloud services
- Integrated pressure sensor
- · Data location from built-in GPS
- SignalFire cloud monitoring/alarming service
- Low power sensor allows rapid data collection and report on exception
- Reports max, min, average and instantaneous pressure



PRESSURE SENSOR

PERFORMANCE AT 77°F / 25°C

Accuracy: ±0.25% BFSL

Stability (1 year): ±0.25% FS, typical

Over Range Protection: 2X Rated Pressure, Minimum **Burst Pressure:** 5X or 40,000 PSI (whichever is less)

Pressure Cycles: >100 Million

Process Connection: 1/2" NPTM 316L Stainless Steel

Standard

F250C Autoclave for pressure >10,000 psi Other process connections/material available

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

Low Pressure Ranges: 0-2 psi, 0-20 psi

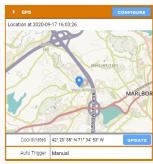
THERMAL LIMITS

Operating Range: -40 to +176°F (-40 to +80°C) Compensated Range: 32 to +131°F (0 to 55°C)

TC Zero: ±1.5% of FS **TC Span:** ±1.5% of FS









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TECHNICAL SPECIFICATIONS

Operating Temp:

-40 to +176°F (-40°C to 80°C)

Humidity: 0% - 100% condensing

Power: Four D Cell Lithium battery

pack. Field replaceable.

Battery Life: 5+ years with a 5

minute report interval

Data Interface: LTE CAT M1 MQTT

with SparkPlug B

Data Transmission:

 Report interval 1 min to 12 hrs (min, max, avg, actual) • Configurable report on exception threshold.

• Configurable sampling as fast as every 5 seconds.

Cellular Radio Power: 23dBm

Antenna Type: LTE w/ Internal GPS

Enclosure: Industrial polycarbonate

UV Rated; IP64

Safety Rating: Class 1 Division 2 Certified, Groups A, B, C, D. Temperature Code T5. Certified to CSA C22.2 No. 213:2017, Conforms to UL 121201:2017, CE Approved

Local Micro-USB Configuration Port

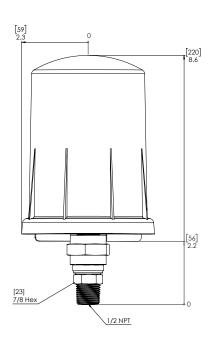
Weight: 2 lbs (910 g)

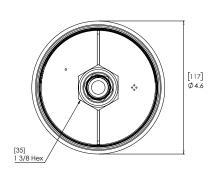
Estimated Monthly Data Usage:

Check-in interval dependent

- 30 sec = 54 MB
- 1 min = 27 MB
- 5 min = 5.4 MB
- 15 min = 1.08 MB
- 60 min = 0.27 MB

DIMENSIONS



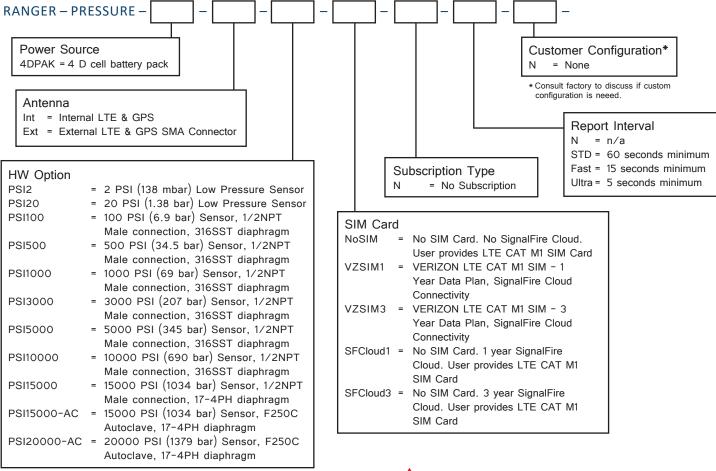




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HOW TO ORDER





Authorized Sales Representative 801-791-3407 208-324-8006 https://frontierprecision.com/water-products/

