

Realtime Pressure/Temperature Gauges



Description

PTS has an extensive range of pressure and temperature gauges (sensors) covering wide range of operating parameters to meet survey objectives.

The gauges are robust and can be run on electric line multi-conductor, electric line mono-conductor or conductor coil tubing. Continuous realtime pressure and temperature measurements are available for analysis and data transmission using a wide variety of industry standard software programs and transfer systems.

The gauges are powered from surface and in some cases have battery power sources allowing for memory data storage if needed. memory recording provides data backup in case of realtime interface problems.

Carriers are suitable for operations in hostile environments including H₂S, CO₂ and acid. See table below for typical realtime gauge parameters. Please contact PTS for more information and other gauges available.

Operating Specification

GAUGE TYPE	PTS K10 QUARTZ/ QUARTZ XT/ QUARTZ HPHT	PTS K10 STRAIN	PTS PPS	PTS PPS SRO
OD in. PRESSURE	0.50, 0.75, 1.00, 1.25 or 1.50	0.75, 1.00 or 1.25	1.00 or 1.25	1.00 or 1.25
Max. External	16,000 psi	15,000 and 20,000 psi	20,000 psi	20,000 psi
Sensor Type	Quartz	Piezo-Resistive	Piezo-Resistive	Piezo-Resistive
Accuracy	0.02% full scale	0.024% full scale	+/- 0.03% full scale	+/- 0.03% full scale
Resolution	0.00006% full scale	0.0003% full scale	0.0003% full scale	0.0003% full scale
TEMPERATURE				
Max. Temperature	150, 177, and 200° C	150° C	150 and 177° C	150 and 177° C
Accuracy	+/- 0.2° C	+/- 0.25° C	+/- 0.5° C	+/- 1.0° C
Resolution	<0.001° C	<0.001° C	<0.001° C	0.0001% full scale
SRO				
Power	Surface	Surface	Surface	Surface
Sample Rate	0.1 sec fixed	1 sec fixed	1 sec fixed	1 sec fixed
MEMORY MODE				
Battery Type	2 CC Lithium	AA cell Lithium	N/A	C cell Lithium
Operating Voltage	3.2 -3.6 V	3.2 - 4.6 V	N/A	3.2 – 3.9V
Sampling Interval	0.1 sec fixed	1 sec to 1 hr.	N/A	1 sec to 1 hr.
CAPACITY	1,400,000 data sets	1,400,000 data sets	N/A	1,000,000 data sets
DATA SET	Time, pressure, temperature	Time, pressure, temperature	N/A	Time, pressure, temperature

