

## PPS25XM SOI-V1 Extreme Memory Gauge

The **PPS25XM SOI-V1 Extreme Memory Gauge** features an advanced piezoresistive pressure transducer, high temperature electronics technology and a welded housing in order to maximize the gauge's performance in high pressure and high temperature well conditions. The new technology PPS SOI sensor is used in many oil and gas projects run by our customers because this state of the art SOI sensor can be used in hazardous environments without worrying about failure.

If the gauge is used in high concentration CO<sub>2</sub> or H<sub>2</sub>S the reinforced metal to metal seals prevent leaks, creating long term stability and reliability in extreme corrosive environments.

Reliability, accuracy and flexibility in E-beam welded package designs and OD sizes are the cornerstone of our innovative products.



**Sensor Type**                      Advanced Technology PPS SOI sensing element

### Pressure

Range-psi	14 - 10 kpsi (maintain) linearity up to 15 kpsi optional customized ranges 15K, 20k, 25k or 30k
Accuracy-psi	0.01% to 0.15% FS (after 10 kpsi might increase*)
Resolution-psi	0.02 psi typical 0.03 psi
Drift-psi/year	<1



### Temperature

Range-°C	20 to 150 °C, (0 °C or lower upon request)
Accuracy-°C	± 0.1° to 0.15°
Resolution-°C	0.01

### Characteristics

Service	Sour Services
Power Source	1CC or 2CC Lithium Battery Pack
Communication	USB / RS232
Data Set	Time / Pressure / Temperature
Over Pressure Tolerance	20 kpsi without any damage and good linearity in readings*
Shock resistance	X, Y, Z - 20,000g
Max OD-inches	1.27" c/w metal to metal dynamic seal at the battery housing
Overall Length-inches	17.8 (452 mm)   20 (508 mm)
Housing Material	Inconel 718
Connection	0.75: Amerada thread
Sampling Rate	1 sec to 18 hours per sample
Memory Capacity	8,200,000 data sets
Documents	Operating Manual



### Applications:

- Pressure Build-up Tests
- Pressure Gradients
- Pre/During/Post Stimulation Evaluation
- Interference Tests
- Fracturing Monitoring
- Drill Stem Tests

\* Accuracy during overpressure might increase 1.5 to 2 times, but the tool will recover instantly when the pressure is released, without the need for a new calibration.

