

PPS53XM Side Pocket Mandrel Memory Gauge

The PPS53XM Side Pocket Mandrel Memory Gauge (SPMG) has a welded housing and uses an advanced piezo pressure transducer to increase the gauges performance at high pressure. The tool is powered by 2 AA lithium battery packs for longer duration downhole. The gauge gets set within the mandrel using standard slickline procedures, and can be retrieved using standard side pocket mandrel tools. These gauges use the simple and powerful PPS SmartView software for all programming and data retrieval, whether done in the field or in the office.



SPM Gauge-Annulus

SPM Gauge-Tubing

Sensor Type

Pressure

Range-psi	Up to 15 kpsi
Accuracy-psi	± 0.03% FS
Resolution-psi	0.0003% FS
Drift-psi/year	<3

Temperature

Rating-°C	150 (302°F) 177 (351°F)
Accuracy-°C	± 0.5
Resolution-°C	0.01

Characteristics

Service	Sour Services
Power Source	Lithium Battery Pack
Communication	USB / RS232
Data Set	Time / Pressure / Temperature
Max OD-inches	1.0 (24.5 mm)
Overall Length-inches	12 (300 mm)
Housing Material	Inconel 718
Sampling Rate	1 sec. to 18 hours per sample
Memory Capacity	2,000,000 data sets

SOI

Applications:

- Gas Lift Optimization and Memory Gauge Application
- Tubing pressure
- Frac monitoring
- Monitoring of flowing wells with no tubing restrictions

