

PPS53 Side Pocket Mandrel Memory Gauge

The PPS53 Side Pocket Mandrel Memory Gauge (SPMG) utilizes our robust electronic design with silicon-sapphire technology to measure pressure and temperature after being set within the mandrel using standard slickline procedures. The gauge housings are designed as either 1" and 1.5" OD, therefore, they can be set and retrieved by 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.



Sensor Type

Silicon Sapphire

Pressure

Range—psi	Up to 10 kpsi
Accuracy—psi full scale	± 0.03%
Resolution—psi	0.0003%
Drift—psi/year	<3

Temperature

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

Characteristics

Service	H ₂ S Services
Power Source	Lithium Battery Pack
Communication	USB
Data Set	Time / Pressure / Temperature
Max OD—inches	1.0 (24.5 mm)/1.5 (38.1 mm)
Overall Length—inches	12 (300 mm)/14 (350 mm)
Housing Material	Inconel 718 Stainless Steel 17-4
Sampling Rate	1 sec. to 18 hours per sample
Memory Capacity	2,000,000 data sets (4 million data sets optional)

Applications:

- Gas Lift Memory Gauge Application
- Stimulation Monitoring
- Long Term Flowing Monitoring
- Post Stimulation Evaluation
- Interference Tests
- Fracture Monitoring
- Water Injection Monitoring

