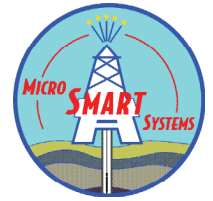


SP-2000



Downhole Memory Pressure Gauge

The SP-2000 is tough, dependable, simple, and intelligent. If your job requires gauges that are reliable yet rugged and simple to use, the SP-2000 memory gauge, with its Hybrid-Quartz sensor is the one for you.

It is so simple that a paper clip can be used to program it by changing the switch settings for the Type and Duration of test.

Our most versatile Pressure/Temperature gauge, the SP-2000 is user friendly.

Capabilities range from programming with a computer to simply dialing in the test type and duration.

The internal SMART algorithms capable of detecting the correct pressure and temperature and adjust the sampling rate automatically (once programmed for the test application).

With the use of our simple, menu driven software, you can retrieve and report the gauge data (using a compatible computer and printer) from the tool once it is removed from the well (using a compatible computer and printer).

Advanced reporting features are available such as data printouts, gradient reports, gradient plots and most of the standard time vs. pressure/temperature plot formats.

Micro-Smart Systems is the **SMART** choice for cutting-edge technology and superior customer support. We can save you time, money, and help you keep your customers satisfied.

Advantages:

- Can be programmed with a paper clip.
- Very easy to dump data with few key strokes
- Micro-Smart provides superior service

SMART Features:

The technological features of the SP-2000 are:

- Dual EEPROM Memory
- Tool performs internal tests and delivers audible signal to confirm operation
- Multiple-run data storage capability
- User friendly Windows-base software
- Convert from memory to SRO gauge with simple module change
- Compatible with Micro-Smart's production logging tools
- Standard ASCII data storage format
- Switch selectable programming without the use of a computer
- Selectable switches for duration in *DAYS* and *TYPE* of *TEST*
- Custom computer programming
 - up to 15 time periods
 - specify time interval, sampling rate, and D P switching.



SPECIFICATIONS:

Memory Capacity: 48,000 data sets (main memory)
2,000 data sets (backup memory)
(time, pressure, temp.)

Sampling Intervals: 1.875 seconds to 64 minutes
(in binary multiples)

Diameter: 1.25 inch (31.2 mm)

Resolution: Pressure .01 psi
Temp. .04° F

Accuracy: Pressure $\pm .05$ % Full Scale
Temp. ± 1 or ± 0.1 °F
Time $\pm .05$ %

Pressure Ranges: 2,500 psi (17,000 kPa)
5,000 psi (34,000 kPa)
10,000 psi (68,000 kPa)
15,000 psi (102,000 kPa)
20,000 psi (136,000 kPa)

Weight: 13 lbs. (5.9 Kg)

Operating Temp.: 32° F to 325° F
(0° C to 160° C)

Power: 13.5V (9 'C' cell Alkaline)
14.4V (4 'C' cell Lithium)

Length: 53 in. (1.3 m) plus battery pack
- 24 in. (.6 m) for 9 cell pack
- 16 in. (.4 m) for 4 cell pack