



# QS-2000

## Surface Pressure Memory Recorder

The QS-2000 Surface Pressure Memory Recorder provides reliable acquisition of wellhead pressure and temperature data. The analysis of this data may be used in place of downhole data in some wells.

The QS-2000 can operate for hours or days; depending on your application. It is small and operates fully from its internal rechargeable battery.

The QS-2000 is tough, dependable, simple and intelligent. Programming can be as simple as selecting a switch setting for the duration of the test. A quartz pressure sensor and external platinum RTD temperature sensor is incorporated to obtain accurate wellbore pressures and temperatures.

Wellhead temperature probes are available for measuring in the flowline or the flange.

A portable computer may be connected to the QS-2000 at any time during a test to download the stored data or to view measurements real time, updated every 2 seconds, without interrupting data storage.

After testing is complete, our simple, menu driven software can retrieve & report the data. Reporting features include data printouts and color plots.

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.

### **SMART Features:**

The technological features of the QS-2000 are:

- Non-Volatile EEPROM Memory
- Recorder performs internal tests and delivers audible signal to confirm operation
- Multiple-test data storage capability
- Quartz pressure sensor
- Platinum RTD wellhead temperature sensor
- Download stored data at any time during the test
- View measurements real-time using portable computer
- Internal, rechargeable battery
- Optional external battery pack or solar cell available for long term testing
- Connector allows battery voltage to be measured during operation
- Standard ASCII data storage format
- Switch selectable programming without use of computer
- Custom computer programming
  - up to 15 time periods
  - specify time interval, sampling rate, and D P switching.



### **SPECIFICATIONS:**

**Memory Capacity:** 48,000 data sets  
(time, pressure, tool temp., wellhead temp.)

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

**Size:** 14" x 12" x 6" (35cm x 30cm x 15cm)

**Weight:** 12 lbs. (5.4 kg)

**Operating Temp.:** -30° F to 165° F  
(-35° C to 75° C)

**Wellhead Temperature:** -40°F to 350°F  
(-40°C to 177°C)

**Power:** Internal – 12v Gel Cell  
External - 120vac Adapter

**Pressure Ranges:** 10,000 psi (68,000 kPa)  
15,000 psi (102,000 kPa)

**Resolution:** Pressure - .02 psi  
Tool Temp. - .01° F  
Wellhead Temp. - .01° F

**Accuracy:** Pressure  $\pm$ .04% Full Scale  
Tool Temp.  $\pm$ 2° F  
Wellhead Temp.  $\pm$ 2° F

**Pressure Connection:** Autoclave F-250° C