



Reservoir Group's Micro Automatic gauge is fully automated and requires no operator input to acquire data.

The gauge is supplied in monitor mode, a non-recording mode, where it is checking pressure and temperature readings every two minutes. When a user programmed temperature or pressure threshold has been exceeded, the gauge automatically enters record mode and stores data to memory at a pre-set sample rate. At the end of a survey, the gauge stops recording automatically when pressure and temperature readings fall below the user-programmed threshold values. The gauge then reverts to monitor mode.

This low power gauge is designed for use on multiple runs using only a single AA size battery. A built in real-time clock ensures accurate data is stored with real-time values and the data from each survey is stored individually in its large memory for easy download and analysis. The Gauge is a compact 10.5" long and is available in 1.25" OD as standard or 1" OD for slim-hole and coiled tubing/small carrier applications.

Our Windows-based Memory Gauge software is easy to operate, even for the beginner, and simple communication steps to download data from the gauge will provide a graphical plot display. For the more advanced user, features such as plot manipulation tools, data export options and Gradient Survey/Report generation tools, are available.



COMMUNICATION PORT

BATTERY PACK

ELECTRONICS

PORTED SUB



Features	Benefits
Fully automatic	No operator input required to record data
All data is stored with real-time values	Enables quick and easy analysis
Large data set memory (1,000,000)	Provides long duration recording at fast sample rates
Innovative electronics	Dramatically reduces power consumption

**Micro Automatic
for Demanding
Applications**

- Casing leak detection
- Frac monitoring
- Gas lift mandrel
- Temperature logging
- Gradient surveys

- Production surveys
- Stimulation monitoring
- Pressure build-up or drawdown tests

- Reservoir evaluations, well testing, & DST
- Static, flowing, and build-up surveys

Technical Specifications

Pressure	
Maximum external pressure	Must not exceed sensor range or 15 ksi max
Sensor range	2 options, 8.6 ksi and 15 ksi
Sensor type	Piezo-resistive
Accuracy	±0.06% FSO
Accuracy typical	±0.04% FSO
Resolution	0.2 psi
Temperature	
Maximum temperature	Must not exceed 150°C
Operating range	0° to 150°C
Accuracy	±1.0°C
Accuracy typical	±0.5°C
Resolution	0.05°C
Power	
Battery type	AA type lithium, hardwired
Operating voltage	3.6 to 3.9 V
Battery Life*	Up to 1 year
Memory	
Sampling capacity	1 to 600 seconds
Memory type	Non-volatile
Capacity	1,000,000 data sets
Record contents	Real time, pressure, temperature
Other	
Diameter options	1.25" or 1" OD
Materials	SS 17-4 PH, Sub K500 Monel
Service	Standard and H ₂ S

* Battery life varies with temperature and sampling interval

Micro Automatic, 125" OD

