



Multiple Pressure Gauge Surface Read Out (MSRO)

The **MSRO** pressure gauge system is utilized when your job application requires real-time, **SRO** (Surface Read Out) data acquisition from several measurement locations (i.e. multiple wells). It is flexible enough to operate on a wide variety of mono-conductor electric lines; including cobalt. Up to 4 **MSRO** gauges may be connected to the wireline receiver with each transmitting data on it's own cable. Data is received at the wireline receiver from each gauge in sequential order. The sampling rate is reduced as the number of gauges connected to the wireline receiver increases as follows:

1 gauge = 0.9375 seconds	3 gauges = 2.812 seconds
2 gauges = 1.875 seconds	4 gauges = 3.750 seconds

Applications & Features

- Monitor and record Pressure and Temperature data from up to 4 different wells with 4 gauges
- Connect 1 gauge downhole and 1 to 3 gauges at surface locations (i.e. tubing, casing, flow line, etc.)
- User-friendly, multi-tasking data acquisition Software
- Application flexibility due to system design
- Standard ASCII data storage format
- Gauge system connects to a standard 1-3/16" G-O pin cable head

Wireline Receiver Power	120/220/240 VAC
Temperature	0°F to 325°F (0°C to 160°C)
Length	42 in. (107cm)
Weight	13 lbs. (5.89 Kg)
Resolution	Pressure - .03 psi Temperature - .04° F
Accuracy	Pressure ± .05% Full Scale Temperature ± 3°F
Pressure Range	5-15 Ksi (34,000 - 103,000 kPa)
Sample Rate	.9375 seconds/ gauge
Outside Diameter	1.45 in. (3.68cm) maximum diameter