



Tandem Downhole Pressure Gauge (TSRO)

The **TSRO** downhole pressure gauge system is utilized when your job application requires dual real-time, **SRO** (Surface Read Out) data acquisition and the flexibility of a multiplexed, tandem gauge system. It is flexible enough to operate on a wide variety of mono-conductor electric lines; including cobalt. The sophisticated multiplexing control circuits are in the top instrument or master gauge. The bottom slave unit is a standard **TSRO** gauge design. Each gauge alternates sending data up the line to the surface data acquisition system. Data is received every 0.9375 seconds, first from the master unit and then the slave unit. This method provides an overall sampling rate of 1.875 seconds. One **TSRO** system can be connected to the surface wireline receiver.

Applications & Features

- Tandem downhole **SRO** gauges allows immediate verification of pressure anomalies
- Top gauge can be ported via tubing to another zone (i.e. bottom of packer, etc.) while bottom gauge measures a separate zone
- Bottom gauge can be hung below the top gauge using any length of Electric-Line cable to measure at a different depth
- 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 300°F (0°C to 150°C)
Length	91 in. (2.31 m) (both instruments)
Weight	29 lbs (13.15 Kg)
Resolution	Pressure - .03 psi Temperature - .04° F
Accuracy	Pressure ± .05% Full Scale Temperature ± 3°F
Pressure Range	5-15Ksi (34,000 - 103,000 kPa)
Sample Rate	1.875 seconds/gauge
Outside Diameter	1.45 in. (3.68 cm) max diameter