

### Complete System



- Permanently place pressure and temperature measurement devices in your wellbore
- Quartz or Piezo, plus vibration sensor technology
- Custom carrier designs
- High reliability redundant metal to metal seals
- Electron beam welded, hermetically sealed gauge design.
- Multi-Gauge deployments
- High or Low cost clamps and cabling solutions
- Cable splices
- CSA approved wellhead exits
- Custom surface data acquisition, storage, and delivery packages
- Slim tool and carrier design

Permanent monitoring systems are growing in demand. The installation of a DataCan permanent monitoring system is very simple. This simplicity leads to higher system reliability, helps to lower costs, lower installation times, and results in fewer mistakes. DataCan's permanent monitoring system is a very economical reservoir evaluation solution.

- Instant feedback on reservoir changes
- Quickly identify well problems
- Improve data clarity by reducing uncertainties
- Monitor skin, permeability, and pressure drawdown over time
- Evaluate operational efficiency
- Obtain initial build up data
- Identify reservoir connectivity
- Detect drainage or injection area changes
- Monitor well completion hardware (PCP and ESP optimization)
- No more well intervention surveys, resulting in lost production
- Automate your reservoir optimization solutions
- Monitor SAGD, and multi-zone completions.

DataCan's permanent monitoring system uses an armored mono-conductor cable to transmit downhole pressure data to the surface in real time. Our surface box comes standard with a display and memory and an output signal allowing you to control pumps or valves. You can also transmit collected data via a cell phone or satellite modem right to your desk. Our systems are designed to run on 12V, and can easily be solar powered.

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Each permanent monitoring system is designed specifically to the needs of each application. DataCan has engineered multiple solutions for each component of the permanent monitoring assembly. The following questions help to establish which solution will be provided:

What type of installation?  
Axially hung (drop spool)?  
Tubing deployed?  
Casing deployed?

What is the bottom hole pressure and temperature?

What pressure data do you require?

Quartz (150°C, 0.0006% F.S. Res., < 3% Drift/yr)?

Piezo (150°C, 0.003% F.S. Res., < 3% Drift)?

How many downhole gauges on one line?

Do you want redundant gauges, and lines?

Do you need any surface sensors?

What type of tubing and casing?

Sizes, Weights, Connections?

What depth will the gauges be?

What level of corrosion - H<sub>2</sub>S, CO<sub>2</sub>?

Is there power at the surface?

Is the well deviated?

Do you want to remote data collection - if so, is a cell phone signal available?

