

Pioneer Petrotech Services Inc.

Proudly Canadian  ISO 9001:2008 Certified



PCPLink

Progressive Cavity Pump Monitoring & Control System

www.pioneerps.com

PCPLink

Improve PCP run life and production performance
with PPS's customizable monitoring systems

The PCPLink (progressive cavity pump) gauge provides real time downhole pressure measurements and the full vibration spectrum of three axes creating a snapshot of whether machinery is operating within optimum parameters. The SmartWatcher Touch surface unit was specifically designed to provide a convenient interface for viewing real time numeric data or graphical representations of the data.

✳ *Dual pressure monitoring provides information on PCP operating conditions*

By using vibration as a leading indicator of equipment health, operators can recognize issues and plan preventative maintenance thereby protecting and increasing pump

longevity. As well pressure data can prompt operators to vary the pump speed, maximizing pump efficiency and production, all while maintaining bottom-hole pressure.

✳ *Diagnose and plan PCP maintenance to prevent system failure and reduce pump down time.*

Having the ability to control the pump is essential to maintaining optimum pump lifting efficiency. Using PCPLink operators can monitor pressure, and temperature. Using these values, alarms can be setup for monitoring and control of the pump.

✳ *Increase pump lifting efficiency while controlling the pump operating time*

Touch System (ST)





PCP Gauge Specifications

Pressure

Pressure Sensor	Dual Silicon-Sapphire
Pressure Range—psi	6K
Accuracy—full scale	± 0.03%
Resolution—psi @ 1sec	0.02

Temperature

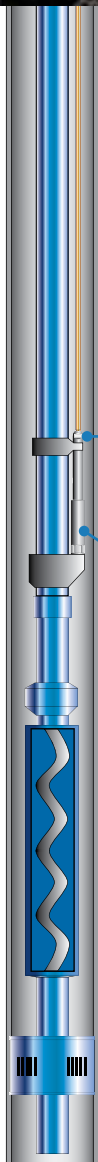
Temperature Range—°C	20 to 125
Accuracy—°C	± 0.5
Resolution—°C @ 1sec	0.01

Vibration

Vibration Sensor	MEMS Accelerometer
Measurement Range	± 12g
Resolution	2.9 mg

Other Characteristics

Service	H ₂ S/CO ₂ Services upon request
Maximum OD—inches	1.125
Data Set	Time / Pressure 1 & 2 / Temperature / Vibration
Housing Material	Inconel 718/SS316



PCPLink Dual Pressure Gauge



PCPLink Benefits

- Monitor pump vibration
- Monitor pressure and temperature
- Control pump speed and efficiency



Smart Gauges and Simple Software



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