

Pioneer Petrotech Services Inc.



PCPLink

Progressive Cavity Pump
Monitoring Systems

www.pioneerps.com

PCPLink Progressive Cavity Pump Monitoring System

The PCPLink HPHT (high pressure high temperature) 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)

Specifications

Pressure

Pressure Sensor	Dual SOI technology
Pressure Range—psi	10K or 15K upon request
Accuracy—full scale	± 0.03% FS
Resolution—full scale	0.015% FS

Temperature

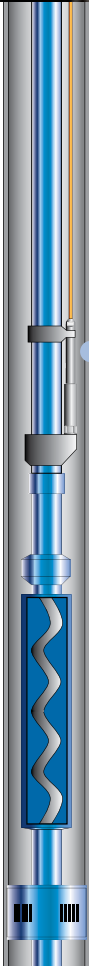
Temperature Range—°C	20 to 150 20 to 180
Accuracy—°C	± 0.5
Resolution—°C @ 1sec gate time	0.01

Vibration

Vibration Sensor	MEMS Accelerometer
Measurement Range	± 50g
Resolution	7.5 ug

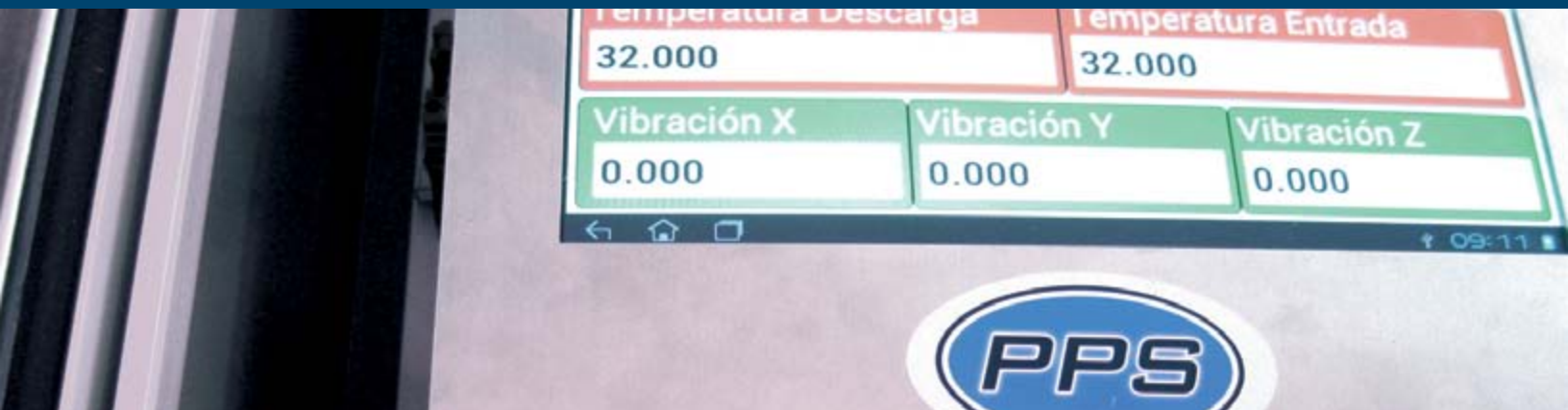
Other Characteristics

Service	H ₂ S/CO ₂ Services upon request
Maximum OD—inches	1.0
Shock Resistance	400 impacts (2 ms half sine, any axis [x, y, z] up to 20,000g based on the sensing element)
Vibration Resistance	Random profile from 20 - 2,500Hz and up to 10g on any axis [x, y, z]
Thermal Shock Resistance	-40°C - 30°C in less than 2.5 min, minimum of 3 cycles
Data Set	Time / Pressure x2 / Temperature / Vibration
Housing Material	Inconel 718



PCPLink Dual Pressure Gauge

Smart Gauges and Simple Software



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