



## *mPOD™<sup>3</sup> Multi-point Digital Gauge Vibration/Pressure/Temperature*

The *mPOD*<sup>3</sup> gauge transmits a proprietary protocol when addressed. Using an addressable scheme allows for multiple gauges or combinations of *mPOD*<sup>3</sup> and *mPOD*<sup>2+</sup> gauges to be powered and communicate on the same, single-conductor cable.

Vibration data measured consists of  $G_{RMS}$  and frequency. The vibration parameter of in-well performance can assist in the diagnostics and proactive decision process with tubing wear or rod parts. In addition to rod-pumped wells, gas-lift wells may benefit from the *mPOD*<sup>3</sup> gauge's enhanced measurement capability to understand flow induced vibrations on the production string and when specific valves are opened.

### *Applications*

- Artificial-lift monitoring, intake and discharge pressure and temperature
- Pressure/temperature (P/T) applications and reservoir pressure monitoring
- Vibration monitoring

### *Features, Advantages and Benefits*

- Multiple gauge communication on single-conductor line
- Metal-to-metal mechanical seals
- Designed for permanent applications





# *mPOD<sup>TM3</sup> Multi-point Digital Gauge*

## *Vibration/Pressure/Temperature*

### *Specifications*

<b>General</b>					
Overall length with cablehead, in. (cm)	26 (66)				
Weight, lb. (kg)	2.8 (1.27)				
Diameter, in. (mm)	1.0 (25.4)				
Mechanical seals	Metal-to-metal				
Maximum <i>mPOD</i> <sup>3</sup> or combination of <i>mPOD</i> <sup>2+</sup> and <i>mPOD</i> <sup>3</sup> gauges on a single-conductor cable	6				
Drift	Typically <2 psi/yr				
Cable length, ft. (m)	Unlimited, compliance test @ 20,000 (6096)				
Sensitivity	Equal to resolution (calibrated repeatability)				
Power consumption	54 mA				
<b>Temperature</b>					
Gauge type	Integral to pressure				
Range, °F (°C)	59 to 257 (15 to 125)				
Accuracy, °F (°C)	±1.8 (±1.0)				
Resolution, °F (°C)	0.1 (0.055)				
<b>Pressure</b>					
Gauge type	Piezo resistive, silicon-on-insulator (SOI)				
Range, psi (bar)	0 to 1500 (0 to 103.4)	0 to 3000 (0 to 206.8)	0 to 5000 (0 to 344.7)	0 to 7500 (0 to 517.1)	0 to 10000 (0 to 689.5)
Accuracy	0.075% FS (typically 0.05% FS)				
Resolution	0.002% FS				
<b>Shock and Vibration Specifications</b>					
Vibration (random) G <sub>RMS</sub>	30 G Navmat				
Shock	200 G 1 ms half sine all axis				
Frequency	0 to 2000 Hz				
<b>Vibration Data Measurement</b>					
Frequency	0 to 400 Hz				
G <sub>RMS</sub>	0 to 30 G				