



mPOD™²⁺ Multi-point Digital Gauge Pressure/Temperature

Weatherford has designed the *mPOD*²⁺ gauge to accommodate ever changing and unpredictable application specifications by incorporating the following:

- Wide operating temperature range
- Repeatability
- Stability
- Resistance to mechanical shock
- Vibration
- Resistance to gases and liquids produced or injected downhole

The *mPOD*²⁺ gauge transmits a proprietary protocol when addressed. Using an addressable scheme allows for multiple gauges to be powered and communicate on the same, single-conductor line.

Applications

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

Features, Advantages and Benefits

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





mPOD²⁺ Multi-point Digital Gauge Temperature/Pressure

Specifications

| General | | | | | |
|--|--|--------------------------|--------------------------|--------------------------|---------------------------|
| Overall length with cablehead, in. (cm) | 24 (60.9) | | | | |
| Weight, lb. (kg) | 2.6 (1.18) | | | | |
| Diameter, in. (mm) | 1.0 (25.4) | | | | |
| Mechanical seals | Metal-to-metal | | | | |
| Maximum mPOD ²⁺ gauges on a single-conductor cable | 12 | | | | |
| Combination of mPOD ²⁺ and mPOD ³ 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 | 40 mA | | | | |
| Temperature | | | | | |
| 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) | | | | |
| Pressure | | | | | |
| Gauge type | Piezo resistive, silicon-on-insulator (SOI) | | | | |
| Range, psi (MPa) | 0 to 1500 (0 to 10.34) | 0 to 3000 (0 to 20.7) | 0 to 5000 (0 to 34.5) | 0 to 7500 (0 to 51.7) | 0 to 10000 (0 to 68.9) |
| Accuracy | 0.075% FS (typically 0.05% FS) | | | | |
| Resolution | 0.002% FS | | | | |
| Shock and Vibration Specifications | | | | | |
| Vibration (random) G _{RMS} | 30 G Navmat | | | | |
| Shock | 200 G 1 ms half sine all axis | | | | |
| Frequency | 0 to 2000 Hz | | | | |