



# 3300 TEMPERATURE GAUGE SYSTEM DATA SHEET



## APPLICATION

The HDI 3300 Temperature Gauge System is an intrinsically safe, certified, solid-state electronic temperature gauge routinely used for monitoring high pressure nitrogen pumping, geothermal and mud based drilling, bulk liquid storage, well control manifolds, and flare stacks. This model offers temperature ranges up to 150 Celsius or 300 Fahrenheit with 0.5% accuracy of full scale. Each gauge system is comprised of a Gauge Display, Inline Cable, and Sensor Assembly allowing the display to be close or far from the point of measurement. All HDI Gauges provide safety, accuracy, reliability, and low maintenance for the user.


## FEATURES

- Battery powered
- Field repairable system
- Low battery indicator
- -50°F to 300°F (-50°C to 150°C)
- 0.1 degree resolution
- 1" Male NPT, 2" 1502, 2" 2202, or flanged connections
- Solid state platform; no fluids or moving parts
- Analog bar graph w/ divided scale
- Simple interface for calibration
- Verify temperatures with a solid state RTD
- Toggle between fahrenheit and celsius

## OPTIONS

- 4-20mA output (additional barrier required)
- 4-20mA input (non-certified option)
- Externally powered, 12VDC or 24VDC required (non-certified option)
- Backlight, 12VDC or 24VDC required (non-certified option)
- 0-1 volt output
- Slave, secondary displays available

## CERTIFICATIONS

- **CSA:** Intrinsically Safe Class 1, Division 1, Groups A, B, C and D
- **ATEX:** optional,  II 1 G, Ex ia IIC T4

**SAFETY**  
**PRECISION**  
**INNOVATION**

WELL CONTROL MONITORING AT ITS FINEST

## SPECIFICATIONS

- Weight: 5 lbs (as shown gauge display only)
- Case Material: black phenolic, aluminum optional
- Accuracy: 0.5% of full scale
- Engineering Units: celsius, fahrenheit
- Resolution: 0.1 degree increments
- Power: HDI E260 Battery Pack, 1 year life span
- Gauge Head Operating Temperature: -40°F to 176°F (-40°C to 80°C)
- Displayed Ranges: -50°F to 300°F (-50°C to 150°C)
- Display: 5 digit digital display, circular analog bar graph, low battery indicator
- Viewing Distance: 30 feet
- Electronics Protection: Gasket seal
- Sensor Housing: 1" Male NPT, 2" 1502, 2" 2202, flanged connections
- Sensor Protection: Primary and secondary rubber diaphragms
- Media Pressure Port: Fluids compatible with 410 QDT stainless steel
- Mounting: Standard 3-hole and 4-hole mounting patterns
- Maximum Inline Cable Length (distance from gauge head to point of measurement): 1,500 feet
- Maximum 4-20mA Output Cable Length: 250 feet

## DIMENSIONS

All dimensions given are in inches and [millimeters] unless otherwise noted.

