**TEMPERATURE**

# Explosion-Proof Temperature Transmitter

## Tek-Temp 2100A

**TEKTROL**
*Technology Solutions*
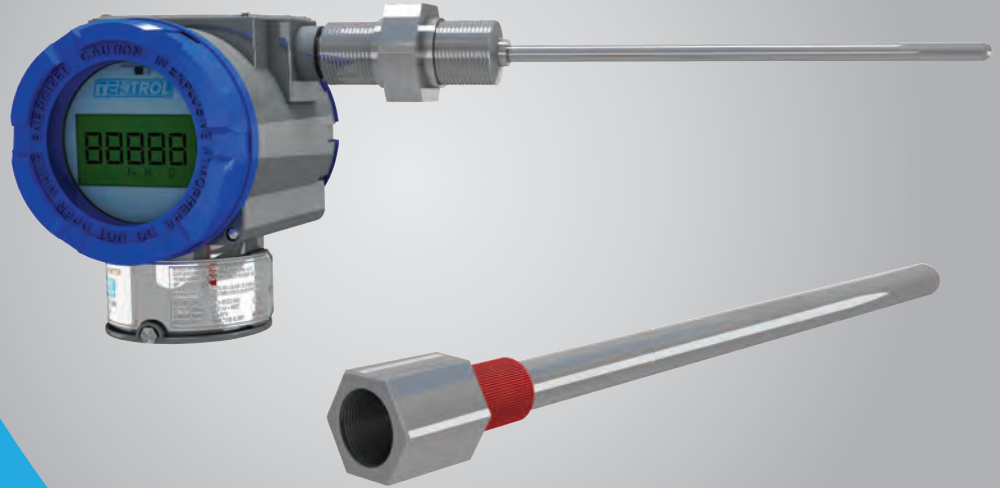
## 1  FEATURES

- **High Accuracy: ±0.03% of F.S.**
- **Selection of various T/C, RTD, mV, Ohm**
- **Data Configuration with HART® configurator**
- **EEPROM write protection**
- **Continuous Self Diagnostic Function (sensor, memory, communication)**
- **Fail-mode process function by hardware and software**
- **I/O Isolation: Grounded T/C input**
- **Also available with fieldbus**

## 3  APPLICATIONS

- **Cement industry**
- **Water and waste water industries**
- **Oil and Gas**
- **Pharmaceutical**
- **Food processing industry**

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## 2  SPECIFICATION

| | |
|---|---|
| Accuracy | ±0.03% of F.S. |
| Hysteresis | ±1% |
| Repeatability | ±0.05% of Span |
| Ambient Temperature Limits | -40 °F to 140 °F (-40 °C to 60 °C) |
| Storage temperature | -40 °F to 185 °F (-40 °C to 85 °C) |
| Compensated temperature | -40 °F to 140 °F (-40 °C to 60 °C) |
| Power supply | 12 VDC to 45 VDC |
| Output signal | 4 mA to 20 mA with HART® |
| Response time | 15 s |
| Electrical and housing connections | ½" to 14" NPT |
| Housing material | Aluminum |
| Display | Optional 5 digit LCD display |
| Failure mode | Fail High: Current ≥ 21.75 mA<br>Fail Low: Current ≥ 3.75 mA |
| Weight | 2.64 lb (1.2 kg) (Standard), 5.73 lb (2.6 kg) (SST Housing) |
| Enclosure rating | FM Explosion-Proof |
| Agency approvals | CE, FM |
| Humidity limits | 5% to 98% RH |
| LCD meter ordering temperature | -22 °F to 176 °F (-30 °C to 80 °C) |
| Loop load | 0 to 1500 Ohm for Operation,<br>250 to 550 Ohm for HART Communications |
| Electrical connections | ½" NPT female |
| 2" Pipe stanchion type bracket | Angle or flat type |
| Housing class | Waterproof (IP67) |
| O-ring | Buna-N |
| Electronic housing | Aluminum |