

## DTS Series Heat Trace Digital Thermostat (cont'd.)

| PCN    | Model      |
|--------|------------|
| 387364 | DTS-HAZ    |
| 316187 | DTS-HAZ-DC |

### Accessories

| PCN    | Model                          |
|--------|--------------------------------|
| 318043 | DTS Wall Mount Kit             |
| 308144 | RTD Extension Wire (50 ft/15m) |

### Applications

- Freeze Protection of Piping
- Process Temperature Maintenance
- Tank Freeze Protection
- Tank Process Temperature Maintenance

### Environments

- Hazardous Areas, Class I, Div 2, Groups A,B,C,D – Temperature Rating: T4A
- IECEx, ATEX Zone II, Temperature Rating: T4

### Sensors

- 100 OHM PT RTD
  - Probe Length = 4" (10.2 cm)
  - Probe Diameter = 1/4" (6.35 mm)
  - Leadwire Length = 3ft (1 M)\*
- \* The maximum allowable length of the RTD wire is 50ft (15m) in order to remain UL/cUL compliant.

### Markets

- Agriculture
- Alternative Fuels
- Chemical Processing
- Food Processing
- Oil / Gas
- Pharmaceutical
- Power Generation
- Water Treatment
- Building and Construction
- Transportation
- HVAC/Refrigeration

### Features

- User Selectable Soft-Start Program
- Small Enclosure. The 6.25 inch by 6.25 inch enclosure houses the temperature control and monitoring unit along with terminals for connecting instrument power, heating cable and RTD.
- 100 Ohm platinum RTD which can be pipe mounted or can be used to sense ambient air temperature.
- Pipe stand-off mount for direct pipe mounting.
- Integral wiring. The wiring of the heating cable, alarm, AC power line and the RTD sensor are all accomplished within the enclosure. This feature reduces both labor and material costs by eliminating the need for an additional heat trace power connection kit as well as the time for the additional wiring.

### Specifications

| Operating Voltage             | 120 to 277 VAC, 50/60 Hz, Single Phase   |          |         |          |                  |        |      |                 |      |        |           |      |      |
|-------------------------------|--|----------|---------|----------|------------------|--------|------|-----------------|------|--------|-----------|------|------|
| Operating Temperature         | -40°F to 104°F (-40°C to 40°C)   |          |         |          |                  |        |      |                 |      |        |           |      |      |
| - Hazardous Areas             | -40°F to 140°F (-40°C to 60°C)   |          |         |          |                  |        |      |                 |      |        |           |      |      |
| - Ordinary Areas              |  |          |         |          |                  |        |      |                 |      |        |           |      |      |
| Input                         | 100 Ohm platinum RTD   |          |         |          |                  |        |      |                 |      |        |           |      |      |
| Output                        | 30 amp solid state relay   |          |         |          |                  |        |      |                 |      |        |           |      |      |
| Alarms                        | High temp to 1150°F (621°C)<br>Low temp to -80°F (-62°C)<br>RTD Failure<br>Red LED alarm status indicator on front panel   |          |         |          |                  |        |      |                 |      |        |           |      |      |
| Solid State Alarm Rating - AC | 12-277 VAC, 1.8 Amps RMS - Customer Supplied   |          |         |          |                  |        |      |                 |      |        |           |      |      |
| Solid State Alarm Rating - DC | 0-42 VDC, 1.8 Amps RMS- Customer Supplied  |          |         |          |                  |        |      |                 |      |        |           |      |      |
| Alarm Function:               | <table border="1"> <thead> <tr> <th>Mode</th> <th>Default</th> <th>Optional</th> </tr> </thead> <tbody> <tr> <td>Normal Operation</td> <td>Closed</td> <td>Open</td> </tr> <tr> <td>Alarm Condition</td> <td>Open</td> <td>Closed</td> </tr> <tr> <td>Power Off</td> <td>Open</td> <td>Open</td> </tr> </tbody> </table> | Mode     | Default | Optional | Normal Operation | Closed | Open | Alarm Condition | Open | Closed | Power Off | Open | Open |
| Mode                          | Default  | Optional |         |          |                  |        |      |                 |      |        |           |      |      |
| Normal Operation              | Closed   | Open     |         |          |                  |        |      |                 |      |        |           |      |      |
| Alarm Condition               | Open   | Closed   |         |          |                  |        |      |                 |      |        |           |      |      |
| Power Off                     | Open   | Open     |         |          |                  |        |      |                 |      |        |           |      |      |
| Deadband                      | 1°F (or °C) to 100°F (or °C), programmable   |          |         |          |                  |        |      |                 |      |        |           |      |      |
| Set Points                    | -80°F to 1100°F programmable (-62°C to 593°C)  |          |         |          |                  |        |      |                 |      |        |           |      |      |
| Units of Temperature          | °F or °C, selectable   |          |         |          |                  |        |      |                 |      |        |           |      |      |
| Control Mode                  | On/Off control   |          |         |          |                  |        |      |                 |      |        |           |      |      |
| Soft Start                    | User selectable integral soft start, patent pending software algorithm, which eliminates nuisance breaker tripping associated with self-regulating cable in-rush   |          |         |          |                  |        |      |                 |      |        |           |      |      |

### Current Approvals

- CE, UL, cUL Listed
- Ordinary Areas
- Hazardous Area
- Class I, Div. 2 – Groups A, B, C, D
- ATEX/IECEx Zone II (Ex nA IIC)