PRODUCT OVERVIEW

nVent RAYCHEM TraceTek TT-TAR is a 2-wire, 4-20 mA current transducer for TraceTek sensor cable or TraceTek sensor probes. Virtually any of the TraceTek family of sensor cables and probes may be connected to the transducer. The TT-TAR is loop powered and no external source of power is required. For hazardous area installations, the TT-TAR is powered via an MTL5541 Repeater Power Supply (Galvanic Isolator). The amount of current that flows in the current loop between the MTL5541 and the TT-TAR is dependent on the condition/status of the sensor cable or sensor probes connected to the TT-TAR.

- 0 mA = Wire break between MTL5541 and TT-TAR
- 4 mA = Sensor cable/probe disconnected from TT-TAR or Sensor cable/probe damage
- 6-9 mA = Sensor cable/probe NORMAL
- > 18 mA = LEAK detected

TT-TAR does not indicate leak location. TT-TAR is designed to monitor point probes and limited amounts of sensor cable.

Key Points

- 2-wire, loop powered, 4-20 mA current transducer for TraceTek sensor cable and probes
- Approved for hazardous areas when energized via an MTL5541 Repeater Power Supply (Galvanic Isolator)
- Magnitude of current indicates sensor cable/probe status: NORMAL, LEAK DETECTED, CABLE BREAK
TraceTek Sensor Cables:
- TT3000
- TT5000
- TT5000-HS
- TT5000-HUV
- TT5001
- TT5001-HS
- TT5001-HUV
- TT7000-HUV

TraceTek Sensor Probes:
- TT-FFS
- TT-MINI-PROBE

**PRODUCT DATA AND RESTRICTIONS**

- **Dimensions**
  - Length: 100 mm (3.9 in) x 25 mm (1.0 in) diameter

- **Weight**
  - Approximately 80 gm (0.18 lb)

- **Sensor Connector**
  - TraceTek MC series -female

- **Current Loop Wire**
  - 1 m (39 in) 3 conductor, 22 AWG (red, black, white*)
  - *Note: white wire is not used for TT-TAR

- **Operating Temperature Range**
  - –40°C to 60°C (~–40°F to 140°F)

- **Maximum Sensor Cable Length**
  - 250 m (820 ft)

- **Maximum Number of TT-MINI-PROBES**
  - 10

- **Maximum Number of TT-FFS Fast Fuel Probes**
  - (Use TT-MBC-MC-BLK to connect more than one probe)
  - 4

**APPROVALS**

- **TT-TAR Unit**
  - Baseefa11ATEX0276X
  - IECEx BAS 11.041X
  - Ex II1G
  - Ex ia IIA T4 Ga (~–40°C <= ta <= 60°C)
  - IEC 60079-2:2011
  - IEC 60079-11:2011
  - EN 60079-11:2007

- **TT-TAR SYSTEM**
  - Baseefa11Y0277
  - IECEx BAS 11.0142
  - Ex ia IIA T4
  - IEC/EN 60079-25:2010

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