

# **Temperature Swichgage®** Scanner/Pyrometer Model TDX6

The TDX6 is an advanced design six-point temperature scanner and pyrometer. It continually scans up to six thermocouples and sequentially displays the thermocouple number and its reading. Each sensor input has a field settable trip point for alarm, shutdown or control. A read/scan selector allows the operator to set and view each trip point. With the selector in the scan mode, a thermocouple read push button provides a means to manually toggle through the six channels and to lock in on a specific channel. Normal scanning will resume approximately three seconds after releasing the push button. All trip points are continually armed and active during the scanning process.

Type J or K, grounded<sup>‡</sup> or ungrounded thermocouples are accommodated. Other types are available upon request.

The TDX6 can interface with other Murphy Selectronic<sup>®</sup> Tattletale<sup>®</sup> annunciators and microcontrollers. It is rated for Class I, Division 2, Group D, hazardous areas\* and is available for operation from CD ignition, 120 VAC or 24 VDC.

NOTE: Using grounded thermocouples introduces the risk of odd currents or voltages being imposed on the thermocouple signal which can affect the accuracy of the reading. This is an inherent problem of grounded thermocouples and the reason why we prefer ungrounded thermocouples.

#### Applications

- Gas Compressor Suction/Discharge Temperature
- Engine/Compressor Jacket Water Temperature
- Process Temperatures
- Generators
- Pumps
- Engine Exhaust Temperature

### **TDX Interface Capabilities**

Models	Power Source	Ratings
LCDT	CD Ign., 120 VAC, 12/24-VDC C	Cl.I, Div.1, Gr.D, Haz. areas*
S1501	120 VAC or 12/24-VDC	Cl.I, Div.1, Gr.D, Haz. areas *
TTD	CD Ignition (neg. grnd), 12/24-VDC	Cl.I, Div.2, Gr.D, Haz. areas $^{\dagger}$
Tattletale®	CD Ign., 120 VAC, 12/24-VDC	Non-Hazardous areas

An isolation barrier is needed between the TDX6 and an Annunciator rated for Class I, Division 1, Group D, Hazardous Areas.

PLCs, various non-Murphy annunciators-contact factory.



1 When used with power requirements described below. 2 When used with approved ignition. Contact Enovation Controls for details.

#### Dimensions



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#### Specifications

## Typical Wiring Diagram

#### Power Requirements (Operating Voltages):

#### How to Order

Options listed below. All configurations may not be available. Call your sales representative or Enovation Controls for more information.

