

TTD™ Annunciator Panel

- **TTD Annunciator Panel**
The TTD is a fully-configurable fault annunciator and shutdown control system designed to protect engines, compressors and their associated equipment.



TTD-H, PSU-2 Approved for hazardous locations
Class 1, Division 2, Groups B, C, and D.



► **Features:**

- Easy to operate
- Simple interface
- One display head is common to all configurations requiring fewer spare parts
- Optional tachometer using CD ignition or MPU input
- Optional pre-lube & post-lube functionality
- Optional no-flow detection
- Monitors 48 user-configurable sensor

Specifications:

Power Requirements:

PSU-2: 10-32VDC, 10W (max); 90-400VDC CD Ignition, 750uA @ 100VDC (max)

On-Board Backup Power: Lithium battery, 6 VDC, 1300 mAh.

Digital Inputs: 48 (a.k.a. Channels)

Sensor Types: Discrete Input, N.O./N.C., intrinsically safe or non incendive

Magnetic Pickup Input: 3.6 - 120 VAC, 2-10 kHz.

Outputs:

RLY: 0.4A @ 400VDC(*) for 5 seconds

0.15A @ 400VDC(*) cont. duty

FV- : 0.5A @ 400VDC(*) cont. duty

ALR: 0.5A @ 48VDC

AUX: 0.5A @ 48VDC

Operator Interface:

Display Type: LCD, Static, 80 segment, custom text with LED Backlight

Display Viewable Area: - 2.79 x 1 in. (71.04mm x 25.4mm)

Display Contrast: Automatic

Display Backlight: Yellow (Normal Operation); Red (Shutdown) (Backlight will only be available when unit is powered by DC. This feature is not available on PSU-1.)

Voltage Level Monitor: Monitor and display voltage level of DC Supply, CD Ignition, and internal battery.

Keypad: 6 switches: Ridge Embossed, Metal Dome, Tactile 14 Oz. Trip Force

Enclosure Cutout: 5.25 x 5.25 inches (133 mm).

Operating Temperature: -40 to +85 degrees C

Viewable Temperature: -40 to +85 degrees C

Storage Temperature: -40 to +85 degrees C

Tachometer Accuracy: $\pm 0.5\%$ of the display reading or ± 1 RPM, whichever is greater.

Resetable Hourmeter Range: 0 to 65535 hrs.

Non-Resetable Hourmeter Range: 0 to 65535 hrs.

Hourmeter Accuracy: ± 1 hour per year.

Communication Ports: 1

A single bi-color (GREEN/RED) LED is provided to give visual indication of active transmit and receive traffic. Only one connection will be active at any time.

Interface: Factory configured for RS232; field-selectable for RS232 or RS485.

Baud/Configuration: 9600, 19.2K, 38.4K(**);N,8,1;N,8,2

Protocol: Modbus (Slave)

Connection: There are 2 screw terminal connectors for RS485.

There are 2 screw terminal connectors for RS232.

There is 1 screw terminal common for both ports labeled as GND.

Third Party Approvals:

TTD-H, PSU-2: CSA Class I, Division 2, Groups B, C, and D.

Intuitive Display Icons:

Display status and assist in setup and operation resulting in greater ease of operation and interface. The appropriate icon will turn on to indicate unit status or navigation through the setup features.

RUN - Run mode

RPM - Screen Value

HOURS - Screen Value

TYPE - Channel Type Configuration

LOW BATT - Low Battery Warning (displayed when condition exists)

HISTORY - Shutdown History

TEST - Test Mode

LUBE - Pre-lubrication Timer

POSTLUBE - Post-lubrication Timer

SHUTDOWN - Stop Mode

ALARM - Alarm(s) Warning (displayed when condition exists)

SETPOINT - Edit Set-point Value

SETUP - Setup Menu(s)

(*) CSA approved for 250VDC maximum.

(**) 38.4K Baud will not be available when IGN input is selected as the source for RPM calculations. When MPU is selected, this feature is available for selection.

Warranty - A limited warranty on materials and workmanship is given with this FW Murphy product.
A copy of the warranty may be viewed or printed by going to <http://www.fwmurphy.com/warranty>