



FW MURPHY®
PRODUCTION CONTROLS



Official FW Murphy Distributor
PT. ATAMORA TEHNIK MAKMUR

TTD™ Series Panel Annunciator Panel



The TTD is a fully configurable fault annunciator and shut-down control system designed to protect engines, compressors and associated equipment.

- Configurable fault annunciator and panel monitoring 48 user-configurable sensors
- Easy to operate with simple interface
- IoT remote access with M-Link® is available
- 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

Overview

This easy-to-operate panel features a simple interface. One display head is common to all configurations which requires fewer spare parts. The optional tachometer may use CD ignition or MPU input. The panel offers optional pre-lube or post-lube functionality as well as optional no-flow detection.

IoT Remote Access

See M-Link page for details.

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 (aka 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:
 - IGN: 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 or AC. 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, tTactile 14 oz. trip force
- Enclosure Cutout: 5.25 x 5.25 inches (133 mm)

HEAD OFFICE, MARKETING & BUSINESS DEVELOPMENT

Equity Tower, 25th Floor, Suite 25F, SCBD Lot 9,
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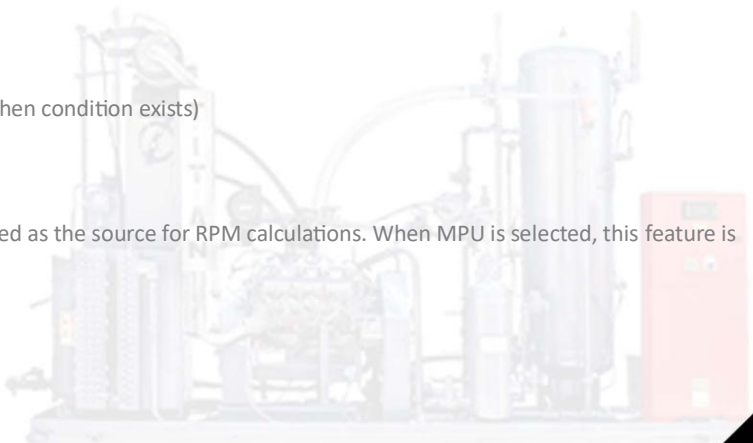
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TTD™ Series Panel Annunciator Panel

- Operating Temperature: -40° to +85° C
- Viewable Temperature: -40° to +85° C
- Storage Temperature: -40° to +85° C
- Tachometer Accuracy: $\pm 0.5\%$ of the display reading or ± 1 RPM, whichever is greater
- Resettable Hourmeter Range: 0 to 499,999 hrs
- Non-Resettable Hourmeter Range: 0 to 499,999 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 (server)
- Connection:
 - 2 screw terminal connectors for RS485
 - 2 screw terminal connectors for RS232
 - 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. 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 setpoint 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.



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TTD™ Annunciator Panel

The TTD is a fully configurable fault annunciator and shut-down control system designed to protect engines, compressors and associated equipment.

This easy-to-operate panel features a simple interface. One display head is common to all configurations which requires fewer spare parts. The optional tachometer may use CD ignition or MPU input. The panel offers optional pre-lube or post-lube functionality as well as optional no-flow detection. It can monitor 48 user-configurable sensors.

Specifications

Power Requirements:

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

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

Digital Inputs: 48 (aka 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:

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

0.15 A @ 400 VDC(*) cont. duty

FV- : 0.5 A @ 400 VDC(*) for 5 seconds

ALR: 0.5 A @ 48 VDC

AUX: 0.5 A @ 48 VDC

Operator Interface:

Display Type:

LCD, static, 80 segment, custom text with LED backlight

Display Viewable Area:

~ 2.79 x 1 in. (71.04 mm x 25.4 mm)

Display Contrast: Automatic

Display Backlight: Yellow (normal operation); red (shutdown)
 (Backlight will only be available when unit is powered by DC.

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 in. (133 mm)

Operating, Storage and Viewable Temperature:

-40° F to 185° F (-40° to 85° C)

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

Resettable Hourmeter Range: 0 to 499,999 hrs.

Non-Resettable Hourmeter Range: 0 to 499,999 hrs.

Hourmeter Accuracy: ±1 hour per year.

* CSA approved for 250VDC maximum



Specifications (continued)

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 (server)

Connection: There are two screw terminal connectors for RS485.

There are two screw terminal connectors for RS232. There is one 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)

† 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.

How to Order

The TTD Annunciator Panel systems are designed and built by qualified engineers and technicians with your control requirements in mind. FW Murphy uses the best materials and equipment in fabricating your control systems.

To order, call your FW Murphy Production Controls Sales Representative.