

SUPERIOR TURNKEY PANEL OFFERS COMPLETE CONTROL, FAMILIARITY ACROSS APPLICATIONS



POWERCORE® TEC-10

- Supports SAE J1939 CAN protocols
- Change settings from the face of the panel
- Rugged panel withstands dust, water and vibration
- Can be utilized across many applications providing familiarity for users



Murphy's PowerCore® TEC-10 panel provides full control of your engine including auto start/stop, auto throttling and display of engine parameters along with critical faults from the engine/application. The TEC-10 supports SAE J1939 CAN protocols for electronically governed engines as well as analog sensors on mechanical engines for fault and safety warnings/shutdowns.

An incredibly versatile control panel, the TEC-10 allows parameters and settings to be changed directly from the front face or via a free PC configuration tool. Powerful flexibility allows for the same control panel to be used across a wide range of applications while providing operator consistency and familiarity.

The control panel features molded-in industry-standard connectors mating with Deutsch HDP series connectors and

is compatible for use on the simplest mechanical engine to the most advanced, fully electronic Tier 4 engines.*

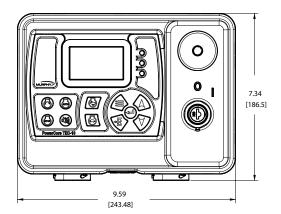
Designed as a plug-and-play solution, the TEC-10 panel is perfect for rental or industrial applications where I/O is needed and auto start or auto throttling is desired.

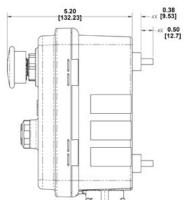
The rugged TEC-10 panel can be mounted directly to the engine or engine/application cover. Built to endure industrial environments from full sun to wide temperature ranges, the panel features a high degree of sealing for dust and water as well as the ability to withstand higher vibration with exposure.

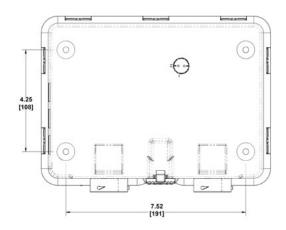
*Murphy Industrial Harness or John Deere OEM engine harnessing required.

POWERCORE® **TEC-10**

Standard Dimensions







TEC-10 PANEL SPECIFICATIONS

• Interface

Display:

Monochrome HR-TFT

2.7 in. / 68 mm, WQVGA (400 x 240 pixels)

Languages: English, Spanish, German, French, Italian

(3) LEDs: green (mode), yellow (warning) and red (shutdown)

Operator controls:

(11) Raised silicone keypads, tactile feedback

(1) Rotary switch, power on/off

(1) Push-switch (red), engine stop

• Power Supply:

Operating Voltage: 8-32 VDC, reverse battery polarity and load dump protected Cranking Power Holdup: O VDC up to 50 mS(also good for brownout/blackout

Current consumption: Power on in stopped state; 117 mA at 12 VDC. Power on in standby mode; 52 mA at 12 VDC.

• Inputs (9):

(5) Digital, configurable (active on High, Low, Open)

(3) Analog, configurable (4-20 mA, O-5V, resistive or digital ground)

(1) Frequency, supporting:

Magnetic pickup (30 Hz - 10 kHz, 2.0 VAC-120 VAC) and Engine Alternator (30 Hz - 10 kHz, 4.5 VRMS - 90 VRMS)

• Outputs (8):

(2) Relay, switched +DC, 10A

(1) Relay, Form C (dry / volt-free), 10A

(2) Low-side FET (-DC), 1A

(2) High-side FET (+DC), 1A

(1) Dedicated Alternator Excitation, +DC, 1A

• Communications:

(1) CAN: J1939

(1) RS485: Modbus RTU

Mating Connectors:

21 Position, Deutsch HDP26-24-21SE,

31 Position, Deutsch HDP26-24-31SE

• Physical/Environmental:

Enclosure material: Polycarbonate

Dimensions (WxHxD): 9.59 x 7.34 x 5.20 in. (243.48 x 186.5 x 132.23mm)

Weight: 4 lbs (1.8 kg)

IP rating: IP67

Operating Temperature: -40° to +85° C (-40° to 185° F) Storage Temperature: -40 to +85° C (-40° to 185° F) Vibration: 7.86 Grms (5-2000 Hz), 3-axis random

Shock: ±50G, 3-axis

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