MURPHY®
by ENOVATION CONTROLS

POWERCORE®
TEC-10

- Versatile turnkey control panel provides familiarity across many applications
- User configurable from the face of the panel
- Rugged panel withstands dust, water and vibration
- Compatible with electronic and mechanical engines



SUPERIOR TURNKEY PANEL OFFERS COMPLETE CONTROL, FAMILIARITY ACROSS APPLICATIONS

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.

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.

*Murphy Industrial Harness or John Deere OEM engine harnessing required

Tier 4 Final ready Stage IV

CE

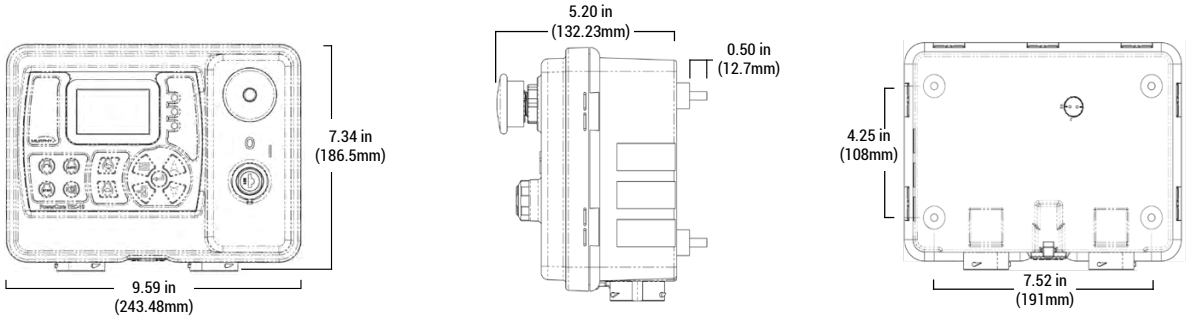
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POWERCORE® TEC-10

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TEC-10 DIMENSIONS



TEC-10 SPECIFICATIONS

DISPLAY	
SCREEN SIZE	2.7 inches
TYPE	Monochrome HR-TFT
RESOLUTION	400 x 240

HARDWARE	
KEYPAD	(11) Raised silicone keypads, tactile feedback (1) Rotary switch, power on/off (1) Push-switch (red), engine stop
LEDs	Green (mode),Yellow (warning) and Red (shutdown)
MATING CONNECTORS	21 Position, Deutsch HDP26-24-21SE, 31 Position, Deutsch HDP26-24-31SE

ELECTRICAL	
OPERATING VOLTAGE	8-32 VDC, reverse battery polarity and load dump protected
TOTAL CURRENT CONSUMPTION	Power on in stopped state; 117 mA at 12 VDC Power on in standby mode; 52 mA at 12 VDC
INPUTS	(5) Digital, configurable (active on High, Low, Open) (3) Analog, configurable (4-20 mA, 0-5V, 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	(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

COMMUNICATION	
CAN	(1) CAN 2.0B, J1939
SERIAL	RS485, (MODBUS RTU)
USB	Programming

ENVIRONMENTAL	
OPERATING TEMPERATURE	-40° to +85° C (-40° to 185° F)
STORAGE TEMPERATURE	-40 to +85° C (-40° to 185° F)
PROTECTION	IP67
VIBRATION	7.86 Grms (5-2000 Hz), 3-axis random
SHOCK	±50G, 3-axis
CASE	Polycarbonate
DIMENSIONS	Width: 9.59 in. (243.48 mm) Height: 7.34 in. (186.5 mm) Depth: 5.20 in. (132.23 mm)

⚠ **WARNING**: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov

FOR MODEL & PART INFORMATION
ENOVATIONCONTROLS.COM/TEC-10

FOR MANUAL & SUPPORT DOCUMENTS
SUPPORT.ENOVATIONCONTROLS.COM

FOR SUPPORT & WARRANTY
ENOVATIONCONTROLS.COM/SUPPORT

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