MURPHY POWERCORE®

Tier 4 Final ready Stage IV

FULL CONTROL OF YOUR ENGINE BECOMES REALITY WITH MURPHY'S POWERCORE CONTROLLER AND PANEL SOLUTIONS

MURPHY® by ENOVATION CONTROLS

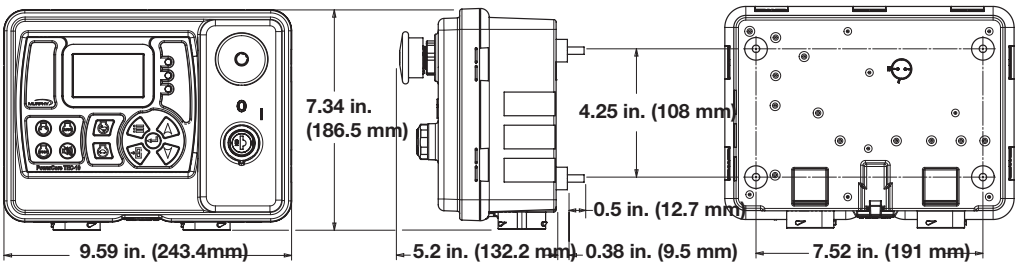
Get full control of your engine, including auto start/stop/throttling and manual start/stop with PowerCore Controllers and Panels. PowerCore supports SAE J1939 CAN protocols for electronically governed engines as well as analog sensors on mechanical engines. The controllers display parameters and critical faults from the engine or application on an easy-to-use interface, enabling operators to quickly see how the engine is performing while stopped, idling or under full load.

The intuitive, pass-coded menus make PowerCore an easy choice for any application. Parameters and settings can be changed directly from the control panel or via the free programming tool. The entire PowerCore series is Telematics compatible and robustly engineered to provide a remote look at the engine and application.

TEC-10 CONTROL PANEL

The turnkey TEC-10 panel offers complete control with easy setup and installation. This panel is a plug-and-play solution that is perfect for rental or industrial applications where I/O is needed and auto start or auto throttling is desired. Powerful flexibility allows the TEC-10 to be used across a wide range of applications while providing operator consistency and familiarity.

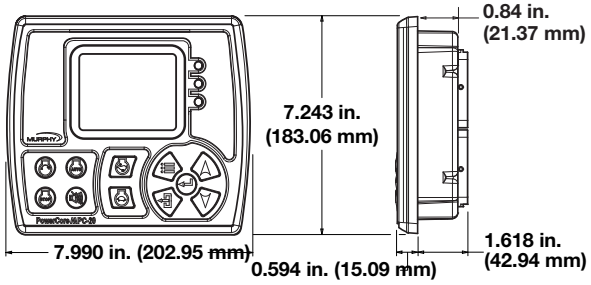
The control panel features molded-in connectors mating with industry-standard Deutsch HDP connectors. The rugged TEC-10 panel can be mounted directly to the engine or engine/application cover. Built to endure harsh environments from full sun to wide temperature ranges, the sealed panel is able to withstand higher vibration with exposure.



MPC-20 CONTROLLER AND ML2000 PANEL SERIES

The MPC-20 features a wide array of inputs and outputs suitable for a variety of applications. The I/O can be used for auto starting the engine or to power or switch ancillary devices required for the application. Additional analog inputs allow viewing parameters with related fault conditions, and the digital inputs can be used for action/fault conditions.

The controller has a large, easy-to-read 3.8-inch (97 mm) monochrome QVGA LCD for displaying engine parameters, diagnostic support and Tier 4 aftertreatment icons. The MPC-20 controller can be mounted in our ML2000 panel solution as a standard offering or in a custom panel of choice.



PANEL OPTIONS

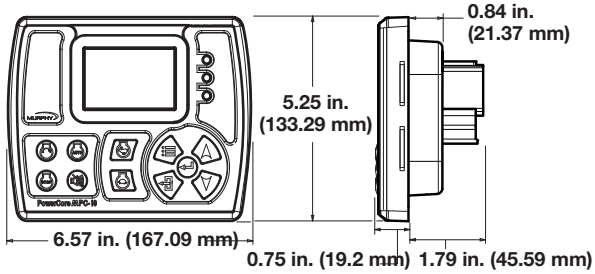
ML2000

ML2000-4X

MPC-10 CONTROLLER AND ML1000-4X PANEL SERIES

The small footprint of the MPC-10 makes this controller ideal for snug areas or lower horsepower engines where size is a factor. This controller is perfect for rental applications where a large number of I/O is not essential but engine monitoring and control is required.

The MPC-10 controller is available in an easy panel mount solution on the standard ML1000-4X panel or in a customized panel solution engineered by the Murphy Industrial Panel division.



PANEL OPTIONS

ML1000-4X

PowerCore® Features	TEC-10	MPC-10	ML1000-4X	MPC-20	ML2000
LCD Graphical Indication (Monochrome)	2.7" (WQVGA)	2.7" (WQVGA)	2.7" (WQVGA)	3.8" (QVGA)	3.8" (QVGA)
LED Indication	3	3	3	3	3
Operating Electrical Range	8-32VDC	8-32VDC	8-32VDC	8-32VDC	8-32VDC
Reverse Polarity Protected	•	•	•	•	•
IP Rating of Full Product	IP67	IP67	*NEMA-4X with IP67 Controller	IP67	*NEMA-4X with IP67 Controller
Operating Temperature Range	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Storage Temperature Range	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Connectors	21 pin and 31 pin Deutsch	3-Deutsch 12 pin	21 pin and 31 pin Deutsch	1-Delphi 90 pin	21 pin and 31 pin Deutsch
CSA Certification (Non-Hazardous Location)	-	•	Controller Only	•	Controller Only
CE Compliant	•	•	•	•	•
Total Inputs	9	9	9	15	15
Total Outputs	7	7	7	13	13
Telematics Ready / SCADA	•	•	•	•	•
PowerVision Configuration Studio® Programming Tool	•	•	•	•	•
Manual Start / Stop	•	•	•	•	•
Multiple Auto Start / Stop Methods	8	8	8	10	10
Multiple Throttling Types	3	3	3	4	4
Auto Throttling Methods	6	6	6	8	8
Manual Throttling Methods	4	4	4	1	1
Mechanical Engine Compatible	•	•	•	•	•
Electronic Engine Compatible	•	•	•	•	•
Menu Passcode Protection	3	3	3	3	3
Start / Stop from Clock Settings	3 Events	3 Events	3 Events	8 Events	8 Events
Event History Log	32 Events	32 Events	32 Events	32 Events	32 Events
Countdown to Shut-down Timer	•	•	•	•	•
Clutch Engage / Disengage Operation	-	-	-	•	•
Minimum & Maximum Run Speeds	•	•	•	•	•
Prestart Delay	2	2	2	2	2
Energize to Stop	-	-	-	•	•
Remote Digital Increase / Decrease Throttling	•	•	•	-	-
Run to Destruct Mode	•	•	•	•	•
External Mushroom Style Stop Switch	•	-	-	-	-
Parameter Setup From Menu	4-Up Screens	4-Up Screens	4-Up Screens	-	-
Internal Service Reminders	•	•	•	•	•
			*4X only		*4X only

Murphy's entire PowerCore Controller series is manufactured to the highest quality standards in Tulsa, Oklahoma. The Murphy Industrial Panel Division also engineers and manufactures standard and custom harness solutions to make installation of PowerCore controllers and panels quick and easy.

MURPHY®
by ENOVATION CONTROLS

SALES@ENOVATIONCONTROLS.COM
WWW.ENOVATIONCONTROLS.COM
(918) 317-4100