

Auto & manual start with
various throttling options and
real-time clock

Large, easy-to-read display,
even in full sunlight

Easy-to-use configuration
software

CAN J1939 communications



CONFIGURABLE, MULTIFUNCTION CONTROLLER FOR ELECTRONIC AND MECHANICAL ENGINES

The PowerCore® MPC-20 is an all-purpose industrial controller that stands up to some of the harshest environments. This powerful controller is targeted for engine-driven pumps and irrigation, with the versatility to work in most engine-driven applications. MPC-20 is Tier 4 / Stage IV ready with auto and manual start, various throttling options and a real-time clock.

AVAILABLE AS A PANEL SOLUTION



Murphy's ML2000 control panel incorporates all the power and functionality of the PowerCore® MPC-20 in a panel solution for most any engine-driven application.

FOR MORE INFORMATION ABOUT ML2000, VISIT:
ENOVATIONCONTROLS.COM/ML2000

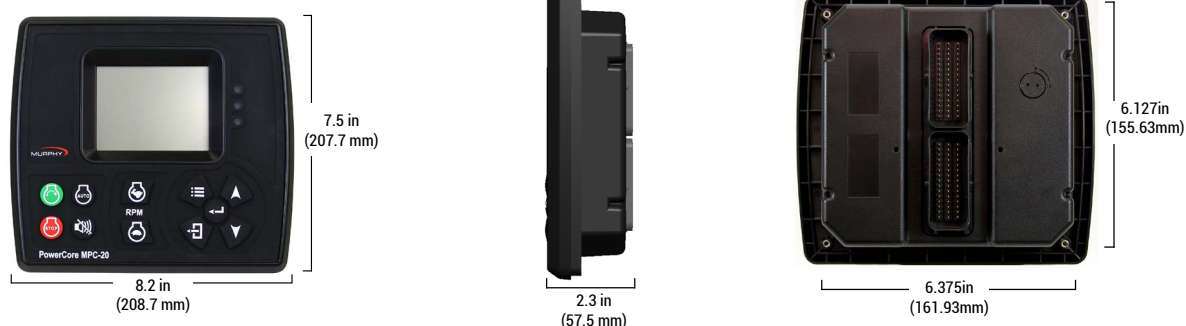


PowerCore® MPC-20

1311409
01-2019

MPC-20 DIMENSIONS

Please visit our Help Center for ML2000 dimensions



MPC-20 SPECIFICATIONS

DISPLAY	
SCREEN SIZE	3.8 inches
TYPE	Monochrome LCD, transfective w/ white backlight
RESOLUTION	320 x 240
HARDWARE	
KEYPAD	11 tactile feedback buttons
LEDs	(1) Red, shutdown, (1) Amber, warning, (1) Green, auto mode
CONNECTORS	Delphi, SICMA 90 position
COMMUNICATION	
CAN	(1) CAN 2.0B, 250 kbps, J1939
SERIAL	RS-485, (MODBUS RTU)
USB	Programming
ELECTRICAL	
OPERATING VOLTAGE	8–32 VDC, reverse polarity & load dump protection
TOTAL CURRENT CONSUMPTION	18W Max without 2 2A High-sides active 146W Max with 2 2A High-sides active
INPUTS	(8) Analog configurable as resistive, 0–5VDC, 4–20mA or digital ground (6) Digital, configurable as battery or ground (1) Frequency, (2Hz–10kHz, 3.6 VAC–120 VAC)
OUTPUTS	(2) 1A max low-side (2) 2A max high-side (2) 200mA max 5 VDC (1) 0–5 VDC analog (6) 10A max form C relays

ENVIRONMENTAL	
OPERATING TEMPERATURE	-40°F to +185°F (-40°C to +85°C)
STORAGE TEMPERATURE	-40°F to +185°F (-40°C to +85°C)
PROTECTION	IP67 complete controller, IP66 panel mount w/ gasket (minimum 14 ga metal plate)
VIBRATION	Random, 7.86 Grms (5–2000Hz), 3 Axes
SHOCK	±50G in 3 axes
EMC/EMI	SAE J1113, ISO 13766, CE per 2014/30/EU
CASE	Polycarbonate
DIMENSIONS	Width: 8.2 in. (208.7 mm) Height: 7.5 in. (189.7 mm) Depth: 2.3 in. (57.5 mm)

ML2000 SPECIFICATIONS

HARDWARE	
CONTROL MODULE	Murphy PowerCore® MPC-20
MATING CONNECTORS	21 position, Deutsch HDP26-24-21SE 31 position, Deutsch HDP26-24-31SSE
ENVIRONMENTAL	
ENCLOSURE	Powder-coated cold rolled steel or polycarbonate

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/MPC-20 &
ENOVATIONCONTROLS.COM/ML2000

FOR MANUAL & SUPPORT DOCUMENTS

SUPPORT.ENOVATIONCONTROLS.COM

FOR SUPPORT & WARRANTY

ENOVATIONCONTROLS.COM/SUPPORT

SALES CONTACT

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