

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

Murphy's 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 02-2022

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
CONNECTORS	mode Delphi, SICMA 90 position
COMMUNICATION	
CAN	(1) CAN 2.0B, 250 kbps, J1939
SERIAL	RS-485, (MODBUS RTU)
USB	Programming
ELECTRICAL	
OPERATING	8–32 VDC, reverse polarity & load dump
VOLTAGE	TOTAL protection 18W Max without 2 2A High-sides
CURRENT	active
CONSUMPTION	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	-40°F to +185°F (-40°C to +85°C)
TEMPERATURE STORAGE	-40°F to +185°F (-40°C to +85°C)
TEMPERATURE	IP67 complete controller, IP66 panel mount w/ gasket (minimum 14 ga metal plate)
PROTECTION	Random, 7.86 Grms (5-2000Hz), 3 Axes
VIBRATION	±50G in 3 axes
SHOCK	SAE J1113, ISO 13766, CE per 2014/30/EU
EMC/EMI	Polycarbonate
CASE	Width: 8.2 in. (208.7 mm) Height: 7.5 in. (189.7 mm) Depth: 2.3 in. (57.5 mm)
DIMENSIONS	

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

FOR MANUAL & SUPPORT DOCUMENTS

FOR SUPPORT & WARRANTY

ENOVATIONCONTROLS.COM/MPC-20 &
ENOVATIONCONTROLS.COM/ML2000

SUPPORT.ENOVATIONCONTROLS.COM

ENOVATIONCONTROLS.COM/SUPPORT

SALES CONTACT

ENOVATION
CONTROLS®
www.enovationcontrols.com

CONTACT

✉ sales@rajkotmarinellc.ae
☎ +971 6 7487580
🌐 www.rajkotmarine.com

RAJKOT MARINE LLC

Jerf Industrial Area 1,
P.O Box 5861
Ajman, UAE

