



POWERCORE[®]
MPC-20
CONTROLLER

ML2000
PANELS

CONFIGURABLE, MULTIFUNCTION CONTROLLER FOR ELECTRONIC AND MECHANICAL ENGINES



Auto and Manual Start with Various Throttling Options and Real-Time Clock

Large, Easy-to-Read Display - Even in Full Sunlight

Set Point Alarm and Shut-down Control

CAN J1939 Communications

Easy-to-Use Configuration Software



The Murphy PowerCore[®] 20 Controller (MPC-20) features an out-of-the-box fully sealed industrial controller for various environments. This controller is powerful and full of easy-to-use features for most applications.

The MPC-20 has a large 3.8-inch [97 mm] QVGA monochrome LCD. The controller is capable of handling sophisticated engine diagnostics whether installed on a mechanical or electronic engine.

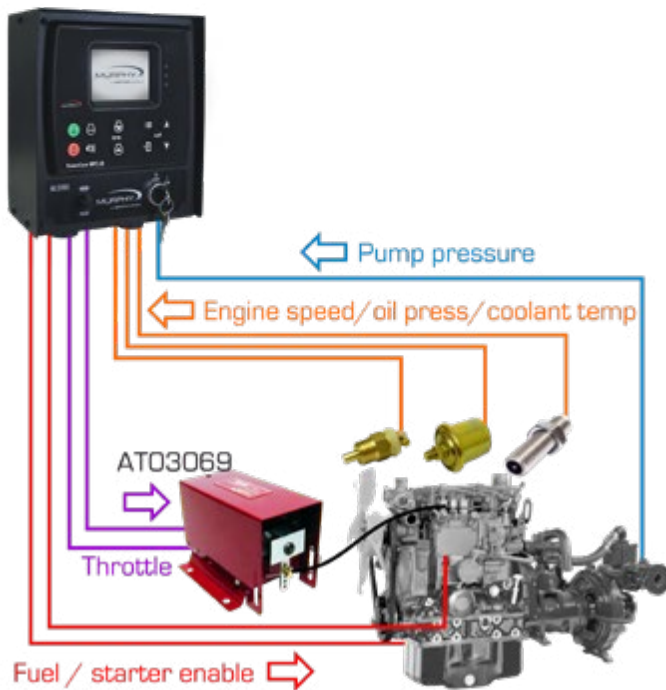
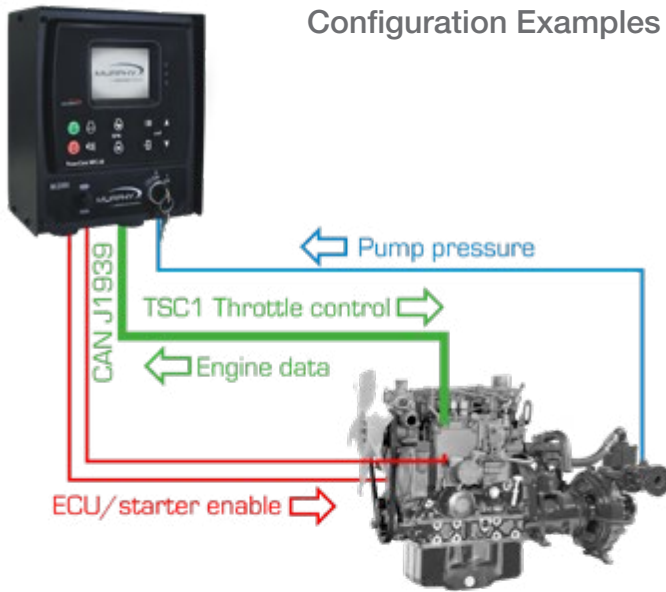
The MPC-20 is targeted at pumping and irrigation applications but can be used and utilized in many other applications requiring an auto or manual start controller.

Customize and save default settings for specific applications with the user-friendly configuration tool. Available in English and Spanish. See the specs on the back of this sheet for a full overview of the MPC-20 Controller.

Available As A Panel Solution
ML2000



Configuration Examples



MPC-20 SPECIFICATIONS

- Display: 3.8" (97 mm) QVGA (320 x 240 pixels); monochrome transfective LCD with white LED backlight and heater
- Keypad: 11 Tactile Feedback Buttons with Silicon Pad
- LED: (3); Red Shutdown, Amber Warning, Green Auto Mode
- Power input: 8-32 VDC, reverse polarity and load-dump protected
- Inputs:
 - (14) User Defined,
 - (1) Dedicated
 - (6) Digital (High/Low)
 - (8) Analog (Resistive, 4-20mA, 0-5VDC or Digital Low)
 - (1) Frequency Input (2Hz -10KHz, 3.6-120VAC)
- Outputs:
 - (13) User Defined
 - (6) 10A Max Form C Relays
 - (2) 2A Max High-side (B+) FETs
 - (2) 1A Max Low-side (B-) FETs
 - (2) 200mA Max 5VDC (1) 0-5VDC Analog
- Communications:
 - (1) CAN 2.0B, 250kbps, SAE J1939 protocol
 - (1) RS485, Modbus RTU
 - (1) USB, Programming
- Connector: Delphi, SICMA 90-way
- Electromagnetic Compatibility: SAE J1113, 2008/108/EC (EN61000-6-2, EN61000-6-3)
- Operating/storage temperature: -40 to +85°C (-40 to +185°F)
- Humidity: 90% RH @ 60°C (140°F), 70% RH @ 85°C (185°F)
- Environmental sealing: IP67 controller module, IP66 panel mount with gasket (minimum 14Ga metal plate).
- Vibration: 7.86 Grms, 5 - 2000 Hz, random 3-axis.
- Shock: 50G (X/Y/Z axis)
- Weight: 0.9 kg
- Dimensions (w, h, d): approx 7.99"x 7.24" x 2.27" in. / 203 x 184 x 58 mm

ML2000-4X SPECIFICATIONS

- MPC-20 control module, specifications as above
- Connectors: 21-way + 31-way Deutsch HDP26-24 series
- Dimensions (max overall, w, h, d): 9.41"x12.47"x7.7" / 239 x 317 x 196 mm
- Weight: 13lbs./ 5.9kg (ML2000); 7lbs./ 3.2Kg (ML2000-FP); 11lbs./ 5kg (ML2000-4X)

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