

MPC-20 Frequently Asked Questions

Q. Can I use the MPC-20 on an electronic engine, or an older mechanical engine with no ECU?

A. *Yes. The MPC-20 defaults to electronic, but mechanical can be selected. Mechanical engine require mechanical sending units and frequency type for engine critical parameters.*

Q. I'm not sure what voltage my engine will be, 12 or 24 VDC. Will it matter after I purchase?

A. *No. The MPC-20 will operate on either 12 or 24 VDC, with no modifications required.*

Q. Can I start my engine using the MPC-20 in manual mode and throttle automatically?

A. *No. However, if the "Key Start" option is selected as the auto start type, the operator can manually initiate an auto start from the interface and auto throttle.*

Q. Can I start my engine with the MPC-20 in Manual Mode then switch to Auto Mode for controlled shutdowns?

A. *Yes, the MPC-20 can be started in Manual Mode then switched to Auto Mode to allow for auto throttling and controlled shutdowns. Note: if the Auto Stop is active then the controller will begin a controlled shutdown once switched into Auto Mode.*

Q. I have not decided what range I will need for my pressure or level transducer. Can these settings be changed once purchased?

A. *Yes. The software is configurable for changing values and calibration of the analog inputs in the MPC-20. The factory defaults are 0-100 PSI and 0-20 FT.*

Q. Do I need special equipment to setup the MPC-20?

A. *No, with the exception of the (2) six up displays and a custom splash screen. All setpoint changes can be made through the local pushbutton interface and does not require a PC for setup.*

Q. Can I make changes to setpoints while the engine is running?

A. *No. The engine must be in the "stopped" state to make changes. You are only able to view setpoints while the engine is running. The only exception is requesting regeneration on a Tier 4 Engine.*

Q. Will the MPC-20 operate when there is no commercial power available?

A. *Yes. The MPC-20 is powered by the engine cranking batteries.*

Q. If I do need to call Murphy Technical Services, what information will they ask for?

A. *They will ask for the 8 digit program number and possibly the 5 digit build number. These numbers are found on the "System Information" page. They also may request the information from the white product label on the reverse side of the MPC-20.*



Q. If I remove power from the MPC-20, will I lose my setpoints?

A. No. All setpoints are saved, and will return on power up.

Q. Will the MPC-20 drain the battery while I am not running the engine?

A. Possibly, depending on how large your battery is and how long between run times. We strongly recommend using a battery charger on standby pumps, and an alternator on primary pumps. In order to reduce power consumption, the MPC-20 has a standby mode. During this time, the MPC-20 turns off the backlight, internal heater and the CAN port to reduce energy consumption.

Q. The MPC-20 is not operating correctly; I'm not sure what setpoints I have changed or need to change.

A. Before calling Tech Services, you can restore the factory settings in the "System" menu. This will give you a fresh start on setpoints.

Q. How do I make sure the MPC-20 has the most recent version of firmware?

A. Call Tech Services, they will direct you to the "System Information" to determine if you have the current build.

Q. Is there way to calibrate the tachometer on the MPC-20 (mechanical engine) without actually counting the number of flywheel teeth?

A. Yes. Use a handheld tachometer and adjust the number of flywheel teeth until the MPC-20's tachometer matches the handheld. You can also contact the dealer and have them look up the number of teeth for that model and serial number engine.