

# 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.*