Littelfuse®

Expertise Applied | Answers Delivered

MP8000 BLUETOOTH® OVERLOAD RELAY FAQ

FAQ

Patent Pending

MP8000 SPECIFICATIONS

What can I protect with the MP8000?

The MP8000 has a wide voltage and current range, and operates on 50/60 Hz, to protect nearly any motor or pump globally.

In what voltage range can the MP8000 operate?

90-690VAC

What amp range does the MP8000 have?

The MP8000 can operate with a motor full amp range of 0.5-1,000A+.

Do I need external CTs for the current measurement?

For less than 100A, conductors can be passed through the built-in CTs on the MP8000. For applications above 100A, external CTs are required.

What does the MP8000 protect against?

- Overload (Overpower) (49)
- Underload (Underpower) (37P)
- Overcurrent (51)/Jam
- Undercurrent (37)
- Current Unbalance/Phase Loss (46)
- Phase Reversal (47)
- Overvoltage (59)
- Undervoltage (27)
- Voltage Unbalance (47)
- Rapid Cycling/Jog
- Contactor Failure
- Zero-Sequence Ground Fault (50Ns)
- PTC Motor Overtemperature (49)

There were many models of the 777, including separate versions for motors and pumps. Are there also many versions of the MP8000?

No, the MP8000 can be used in all of these applications except for the 777-HVR 480 VAC applications.

Are there different versions of the MP8000 for single-phase versus 3-phase?

No, the MP8000 can be used in either single-phase or 3-phase applications.

How was Littelfuse able to design a single unit to work in so many applications?

By moving the adjustment settings and display to the Littelfuse app, along with other product enhancements, we were able to design one product to meet a wide variety of applications.

What is the temperature range within which the MP8000 can operate?

-40° to 70°C (-40° to 158°F)

What size is the MP8000?

The MP8000 is 2.93" high, 4.08" wide, and 4.79" deep.

INSTALLATION AND OPERATION

How do I install the MP8000?

The MP8000 can be surface or panel mounted, or installed on a DIN rail.

Do I need to physically access the MP8000 to view information and modify settings?

No, the MP8000 utilizes Bluetooth® to connect to iPhone®, iPad®, and Android™ smartphones and tablets via the Littelfuse app. By not entering the panel, user safety is enhanced.

How can I reset the relay to get my motor or pump running?

Resetting the MP8000 can be done through the Littelfuse MP8000 app, via an optional pushbutton, or remotely via the network using the Littelfuse software.

Do I need to purchase separate displays to connect to the MP8000?

No, the MP8000 leverages the smartphone or tablet that you already own. This alleviates the expensive purchase of multiple displays.

CONNECTIVITY

Can I connect to the MP8000 via Bluetooth®?

Yes, the MP8000 communicates using Bluetooth BLE.

What is the distance within which I can be connected via Bluetooth®?

The distance is affected by the type of smartphone or tablet used, the location of the MP8000 installation, and potential attenuation of the Bluetooth® signal due to the enclosure type. In general, the distance is up to 30 feet. This enables the user to be located near the motor and pump, which may be useful in troubleshooting any issues.

Do I need to have cellular service to connect to the MP8000?

No, the MP8000 uses Bluetooth®, therefore cellular service is not required except to access the online instruction manual via the app. This could also enable workers to repurpose smartphones that are no longer being used to connect to the MP8000.

Can I connect to the MP8000 remotely?

Yes, the MP8000 can be networked so that information can be obtained using Littelfuse MP8000 software or other software platforms. The MP8000 software can be downloaded for free by visiting the MP8000 product page on the Littelfuse.com website and completing the registration form.

What is the protocol that is used for networking the MP8000?

Ethernet Modbus TCP and Ethernet/IP

Is the IP address dynamic or static?

The MP8000 ships with a dynamic IP address. The IP address can be changed to static by connecting to the embedded user interface on the MP8000. Once the IP address has been entered, the subnet mask will automatically be configured.

MP8000 APP

What smartphones and tablets can I use?

Apple® iPhone 4S and higher
Apple® iPad 3rd generation and higher
Android™ Smartphone with Bluetooth® 4.0 – BLE
Android™ Tablet with Bluetooth® 4.0 – BLE

What operating system do I need to have on my smartphone or tablet?

IOS version 9.0 and higher or Google Android™ version 4.3 and higher.

Where can I obtain the Littelfuse app?

The Littelfuse app is available on the Apple® App Store and on Google Play.

How much does the Littelfuse app cost?

The Littelfuse app is free.

Do I need to pair to an MP8000 every time I want to use it?

No, the pairing process is one-time per MP8000 unit for each smartphone or tablet used.

Can multiple people be connected to the MP8000 at one time?

No, since a user can modify settings, only one user can be connected to an MP8000 at a time to ensure no conflicts exist between user inputs.

How do I disconnect from an MP8000?

Disconnection can be done by hitting the back arrow until the initial app screen is reached, exiting the app, or by moving out of range of the MP8000 signal.

I have multiple MP8000 units. How can I tell which one I want to connect to?

The MP8000 units are displayed in the app based on signal strength, with the strongest signal at the top. The strongest signal is most likely the closest.

Can I re-name the units?

Yes, you can re-name the units to best suit your environment. Re-naming the units also helps with identifying the unit that you are connected to.

This is my first time connecting to my MP8000, and it is prompting me to configure it. Do I need to?

When the first user connects and pairs to the MP8000, they are prompted to configure the unit. The "High Voltage" setting has been purposely set to 1V lower than the "Low Voltage" setting to ensure that the user inputs settings required for the specific conditions where the MP8000 is installed.

What is the difference between "Basic" and "Advanced" settings?

"Basic" settings are more typically used while "Advanced" settings are less commonly used.

If I need more information while inputting settings, where can I find it?

A small "i" icon is in the lower right corner of the popup box for each parameter that you are attempting to modify. Tapping on the "i" will take you to the relevant part of the manual for that setting (connection to the internet is required). Additionally, the full MP8000 product manual can be found on the Littelfuse website.

How can I tell what the most recent fault is?

Faults are listed on the "Fault" screen with the most recent at the top. Faults are time and date stamped to help with troubleshooting.

What information is included in a fault?

The electrical parameters that existed the moment before the fault occurred are displayed to aid with troubleshooting the cause of the fault.

How many faults are stored on the MP8000?

The most recent 1,000 faults are stored on the MP8000.

SECURITY

What security is built into the MP8000 to prevent unauthorized people from connecting to it?

The MP8000 has two levels of security. The first is a pairing code that is required to connect to the unit and view real-time information, settings and faults. The second level of security is a password which is required to modify any settings on the unit. This allows customers to segment personnel to those that can view only, and those that can make modifications.

Where can I find the pairing code?

The pairing code is located on a label on the MP8000. An extra label is provided that can be placed in a separate area, such as a log book.

Will I be asked for the pairing code each time I want to connect to the MP8000?

You will only be asked once for the pairing code for each MP8000 for each smartphone or tablet used.

Where can I find the default password to change the settings?

The default password is located on a label on the MP8000. An extra label is provided that can be placed in a separate area, such as a log book.

Can I change the password?

Yes, the password can be changed to one of your choice.

Do I need to enter the password each time I change a setting?

When changing settings, you are only asked for a password one time per session. If you disconnect from the MP8000, which includes moving out of range, you will be prompted for a password the next time you connect to the MP8000 and attempt to change a setting.

What happens if I lose my pairing code or password?

Obtain the MAC address from the label on the unit and contact Littelfuse relay technical support for assistance to obtain the original settings.

AVAILABILITY

Where can I purchase the MP8000?

Please see your local Littelfuse relay distributor. Your local relay distributor can be found on the Littelfuse website.

Can I have a Littelfuse account manager contact me so I can see a demo of the MP8000?

Yes, please contact your local Littelfuse representative. Your local representative can be found on the Littelfuse website.

REGULATORY APPROVALS

What regulatory approvals does the MP8000 have?

UL, cUL, CE, FCC, and RCM

For more information, visit
www.littelfuse.com/mp8000

Additional technical information and application data for Littelfuse protection relays, fuses and other circuit protection and safety products can be found on **www.littelfuse.com/protectionrelays**. For questions, contact our Technical Support Group **(800-832-3873)**.

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