

MP8000 BLUETOOTH SECURITY FEATURES

The MP8000 Bluetooth overload relay was designed to provide safety and convenience for the operator. A Bluetooth Low Energy (BLE) Radio was applied to the product that interfaces with most hand-held Apple* and Android* phones and tablets. This radio interface provides a safe connection to monitor and program the MP8000 while the product is energized inside a closed electrical panel.

Littelfuse understands the security concerns of unauthorized access to the MP8000 and provides multiple design features to dramatically increase security for unauthorized personnel.

THE FOLLOWING SECURITY FEATURES ARE INTEGRAL PARTS OF THE MP8000'S BLUETOOTH INTERFACE:

1. Bluetooth Low Energy (BLE) was chosen for the RF interface because it has a limited range of use. Typically, users can communicate with the product in an enclosed panel up to about 30 ft[†].
2. The Bluetooth protocol implemented only allows one device to be connected to the MP8000 at a time. This feature prevents coordinated attacks on groups of products with one device; unlike hardwired networks, Wi-Fi and ZigBee wireless systems.
3. Two passwords are provided with each MP8000 that are unique to each product. One password allows read only access, while a second password provides read/setpoint access. The read/setpoint password must be entered each time a Bluetooth connection is executed.



MP8000 Series

4. Data transferred in the Bluetooth "RF packets" are encrypted with high-level encryption algorithms. This feature was implemented by Littelfuse engineers in the MP8000 design to render any information captured by RF network protocol analyzers meaningless. Efforts to interact with the product with unauthorized software is very unlikely for this reason.
5. Firmware updates to the MP8000's operating system are not allowed via the BLE interface. This feature prevents any malicious alteration to the product's operating system via the RF link.
6. End-users can completely disable the RF interface, this can be done by executing a command thru the Ethernet interface and is documented in the MP8000 Programming Guide.

* Bluetooth, Apple, and Android are trademarks of their respective owners.

† Bluetooth connectivity range may be reduced depending on the smartphone or tablet used, enclosure type, or environmental factors.