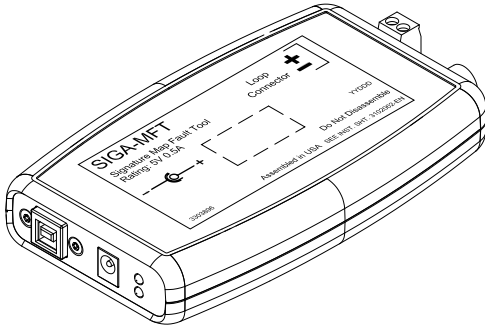


# SIGA-MFT Map Fault Tool Installation Sheet



## Description

The SIGA-MFT Map Fault Tool is a diagnostic tool intended to help you locate and resolve sources of mapping faults in a Signature signaling line circuit (SLC). The SIGA-MFT ships with these accessories:

- A USB flash drive with the SIGA-MFT Software
- A USB cable
- A 24 VDC external power supply

The SIGA-MFT is wired directly to the SLC and connected to your PC using a USB cable and port. The SIGA-MFT simulates the mapping operation of the panel SLC controller, and the SIGA-MFT Software provides enhanced troubleshooting information.

The SIGA-MFT and the Signature SLC are powered by the USB port on your PC. An external power supply (provided) can be connected to the SIGA-MFT when needed. For example, when you connect to a USB hub, which does not include power, or if communication is lost when connecting to the SLC.

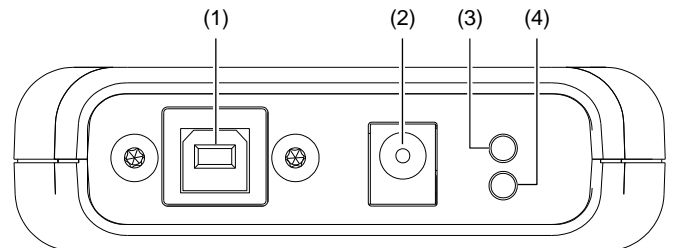
Diagnostic LEDs indicate communication by flashing:

- Green = PC communication
- Red = SLC communication

## Features

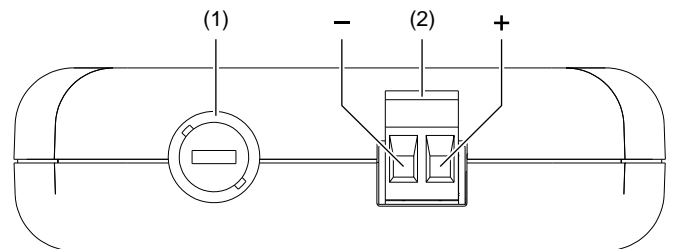
Figure 1 shows the connectors and indicators located on the front face of the SIGA-MFT. Figure 2 shows the connectors and fuse located on the back of the device.

Figure 1: Front view of the SIGA-MFT



- |                         |               |
|-------------------------|---------------|
| (1) USB connection      | (3) Green LED |
| (2) External power jack | (4) Red LED   |

Figure 2: Back view of the SIGA-MFT



- |                              |
|------------------------------|
| (1) Fuse                     |
| (2) SLC connection terminals |

## Installation

Refer to Figure 3 when installing the SIGA-MFT.

### To install the SIGA-MFT:

1. Insert the USB flash drive into any USB port on your PC, and then double-click Setup.exe to install the SIGA-MFT Software.

You must install the software before connecting the device so that the PC can recognize it.

2. Connect the SLC wiring to the SIGA-MFT observing the polarity indicated on the device.

You must disconnect the SLC from the panel, and connect it only to the SIGA-MFT.

For Class A circuits, disconnect the Class A return wires. If the SLC controller has a removable terminal block, simply remove the block. The Class A return wires are not used.

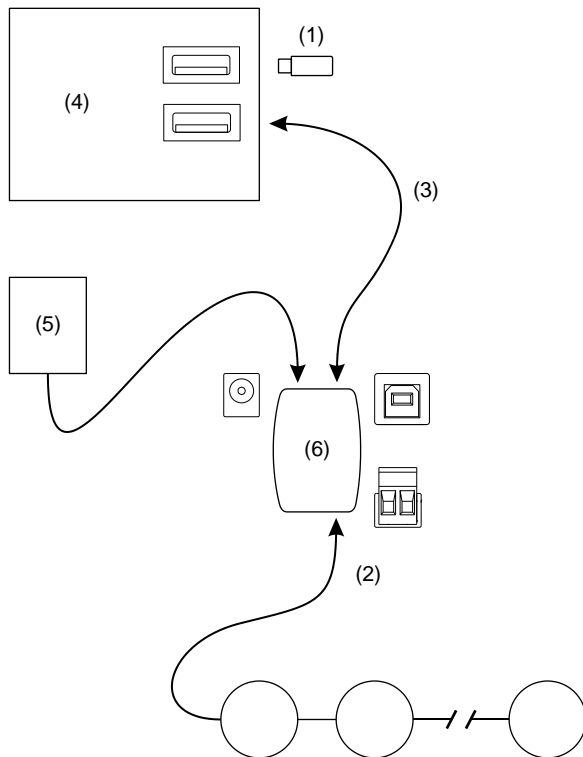
3. Connect the USB cable to the SIGA-MFT, and then to your PC.
4. Click Start > All Programs > Edwards Software > SIGA-MFT Software to start the program.

During operation, the program may display a message indicating that the external power supply is required. You can plug in the external supply at any time during installation or operation.

Refer to the *SIGA-MFT Map Fault Tool User Guide* (P/N 3102035-EN) for instructions on using the tool to troubleshoot the Signature SLC. A copy of the guide is installed in the Edwards Software folder during installation of the SIGA-MFT Software.

## Wiring

Figure 3: Connecting the SIGA-MFT



- (1) USB flash drive with SIGA-MFT Software
- (2) Field wiring from Signature SLC under test
- (3) USB cable
- (4) PC with SIGA-MFT Software installed
- (5) 24 VDC external power supply (optional)
- (6) SIGA-MFT

## Maintenance

The SIGA-MFT does not require any periodic maintenance. If needed, use a replacement fuse with the values shown in "Specifications" below.

## Specifications

Voltage	24 VDC [1]
Current	500 mA
Fuse	250 V, 125 mA
Wire size	12 to 26 AWG
External power supply	
Voltage	24 VDC
Current	1 A
External supply plug	Positive center 2.1 mm ID x 5.5 mm OD x 9.5 mm (female)
PC operating system	Windows XP or Windows 7
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Relative humidity	0 to 93% noncondensing

[1] When power is supplied by the USB port, the device operates on 5 VDC. The USB supply is limited to 500 mA by definition.

## Regulatory information

FCC compliance	This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
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## Contact information

For contact information, see [www.edwardsfiresafety.com](http://www.edwardsfiresafety.com).