

This document is intended as a reference guide to installing and setting a MK2000 series remote indicator. This document includes installation instructions and typical front plate display indications of the device. For complete details, including installation, setup, settings, and troubleshooting, refer to document NAE2025010, "LIM2010 User Manual."

Only qualified maintenance personnel shall operate or service this equipment. These instructions should not be viewed as sufficient for those who are not otherwise qualified to operate or service this equipment. This document is intended to provide accurate information only. No responsibility is assumed by BENDER for any consequences arising from use of this document. This device series is intended for use only with the BENDER LIM2010 Line Isolation Monitor.



### Applicable Devices

This document applies to the following remote indicators:

- MK2000 (- G1 / G2) Mute
- MK2000P (- G1 / G2) Mute, test
- MK2000C (- G1 / G2) Mute, overload
- MK2000CP (- G1 / G2) Mute, test, overload

For MK2000CBM remote indicators, refer to document NAE2028450 for installation instructions. For all other remote types, refer to the respective user manual for installation instructions.

### Installation

#### Mounting

Single-gang plates provide two holes at the top and bottom for screw mounting. Two-gang plates provide four holes (Two at the top, two at the bottom) for screw mounting. Use the provided screws for mounting. MK2000 series remotes utilize standard size gang plates. Refer to Figure 1 for single-gang plates, and Figure 2 for two-gang plates.

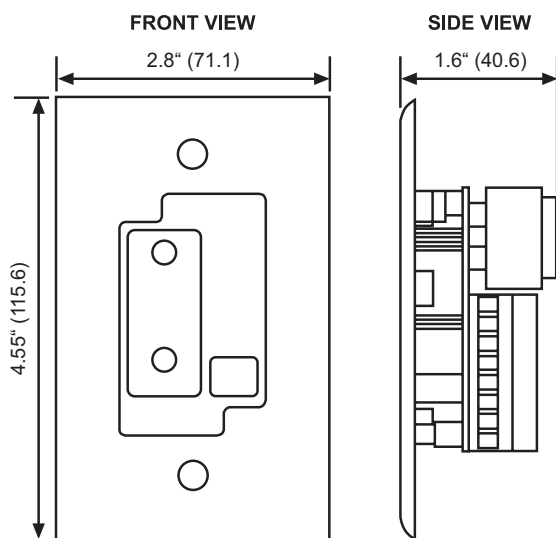


Figure 1 - Single-gang wall plate dimensions in inches (mm)

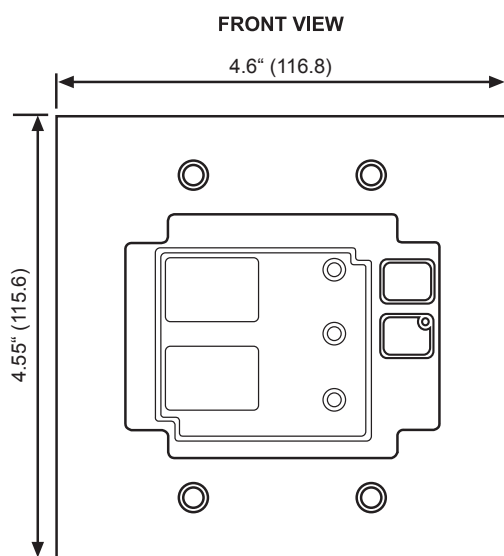


Figure 2 - Two-gang wall plate dimensions in inches (mm)

### Wiring

MK2000 series remotes connect to a connector plate assembly, which is connected to the LIM2010 Line Isolation Monitor. Ensure that the LIM2010 and corresponding connector plate have already been installed.

**Locate the wiring diagram for the correct MK2000 series remote on the reverse side of this document.**

For more information on the connector plate and installation, refer to the LIM2010 User Manual, document NAE2025010.

#### Wiring - Remote Muting

Remote indicators that do not have bus capability may be muted collectively by connecting terminals 7 and 8 on the remote to terminal RI2 on the LIM2010. No matter how the wiring is configured, each respective device is able to mute itself. Wiring between the remote and the LIM2010 will affect whether a particular device will mute more than itself. Refer to Table 1 below for details.

LIM2010 Terminal RI2	MK2000(C)(P)		Effect
	Terminal 7	Terminal 8	
--	--	--	Only the local device will be muted.
X	X	--	The LIM2010 mute button will mute both devices.
X	--	X	The MK2000 mute button will mute both devices.
X	X	X	Both mute buttons will mute both devices.

**⚠ DANGER**

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

- Disconnect all power before servicing.
- Reference NFPA 99 / CSA Z32 for Installation Standard.

### Front Panel Display (Example: MK2000CP-G1)

NOTE: Depending on the type of remote, not all features shown in the image below may be available. Consult the list below or the manufacturer for more details.

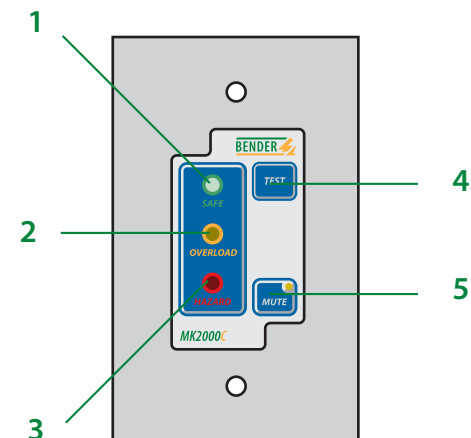
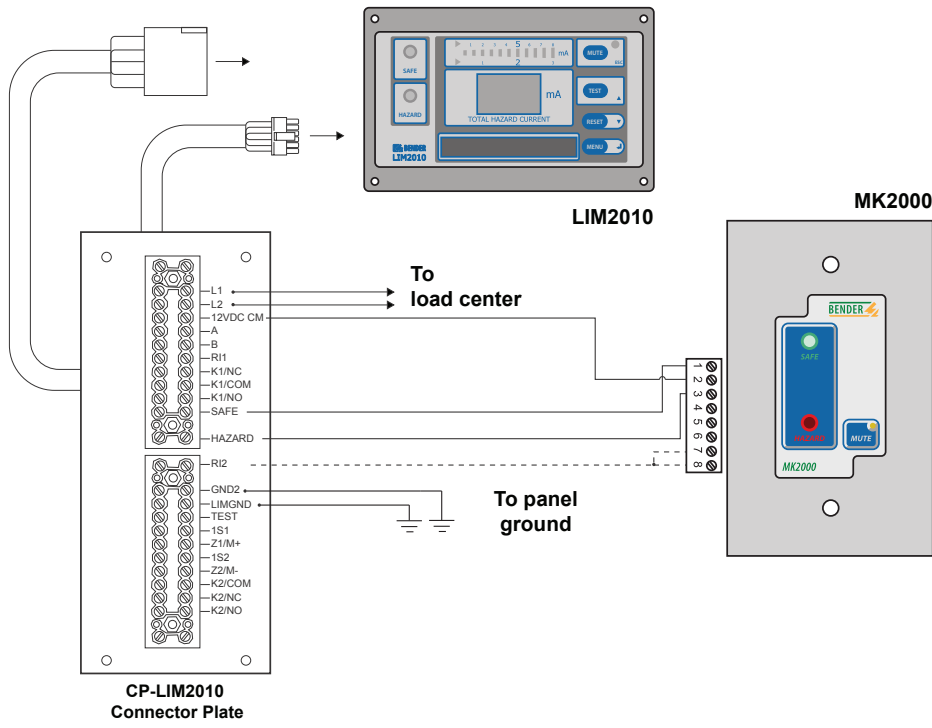


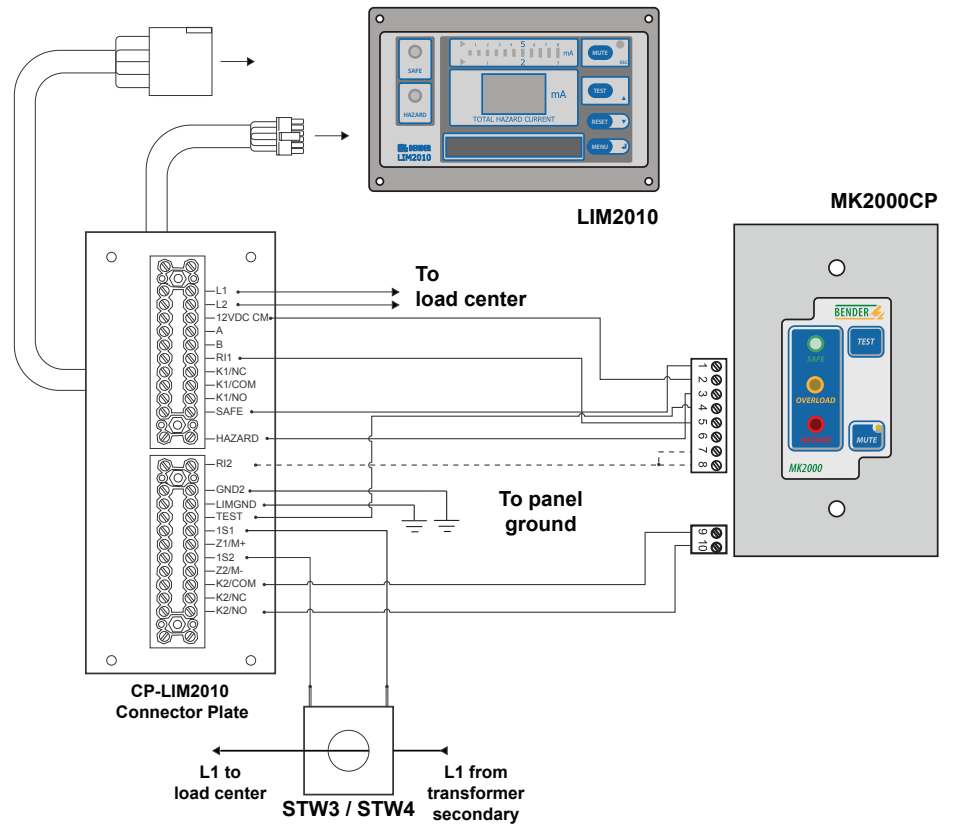
Figure 3 - MK2000CP-G1 diagram

1. Green "SAFE" LED. Illuminates when the connected LIM2010 is in the normal condition.
2. Amber "OVERLOAD" LED (Only available with MK2000C and MK2000CP). Illuminates when the connected LIM2010's transformer overload alarm is active.
3. Red "HAZARD" LED. Illuminates when the connected LIM2010 is in the alarm condition.
4. TEST button (Only available with MK2000P and MK2000CP). Initiates a self-test of the connected LIM2010.
5. MUTE button with amber LED. Mutes the audible alarm when in the alarm condition. The amber LED indicates that the audible alarm has been muted.

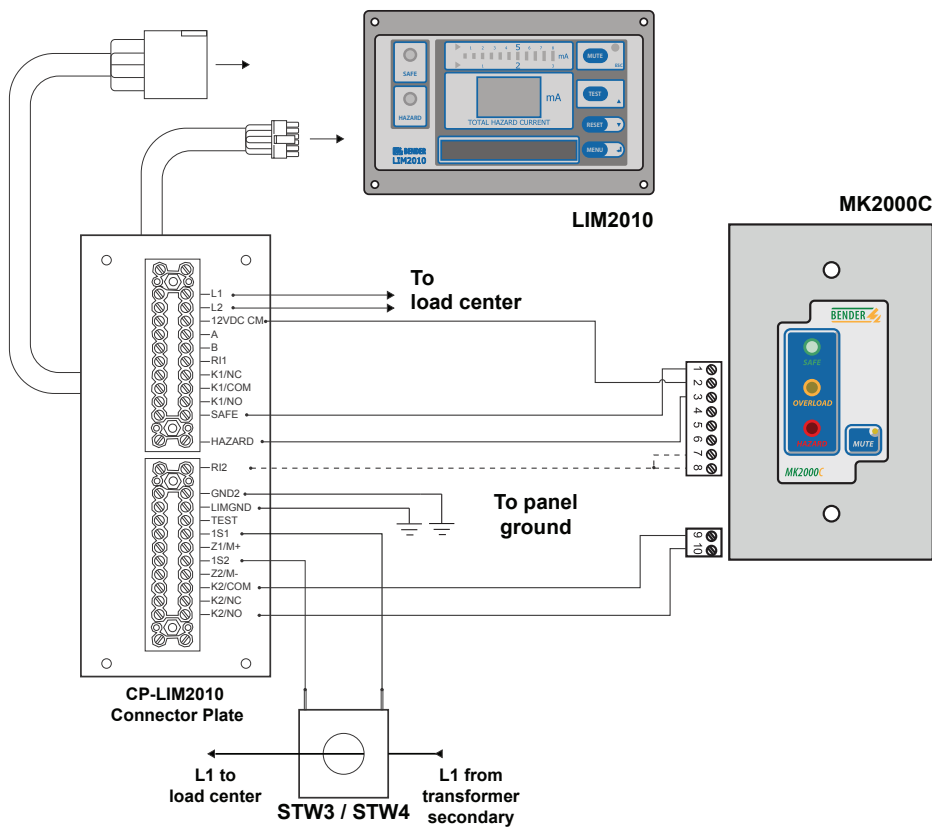
**Figure 4 - Wiring, MK2000**



**Figure 7 - Wiring, MK2000CP**



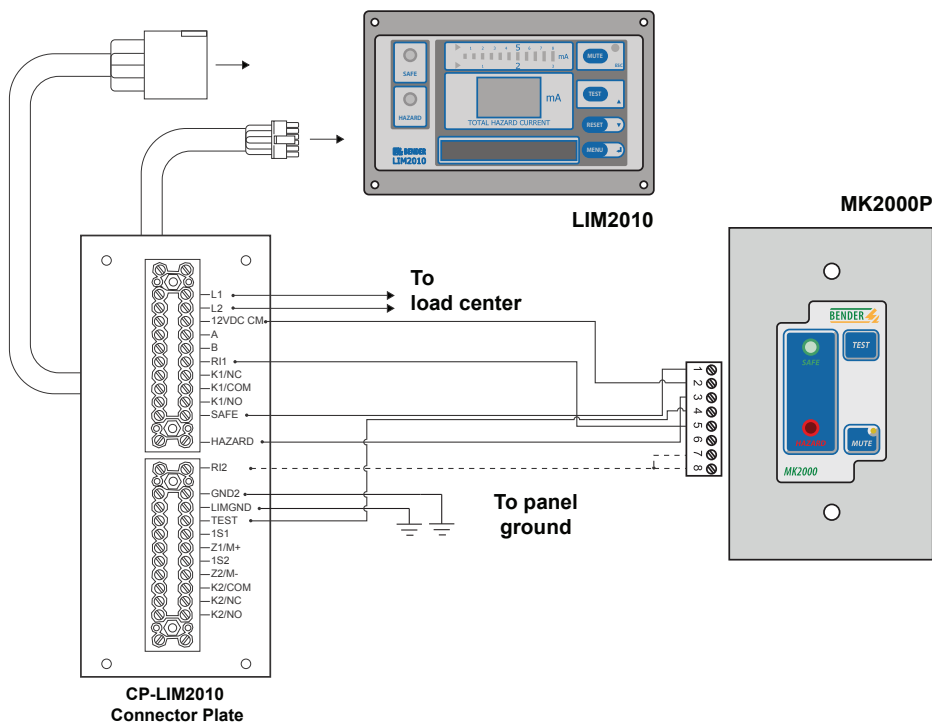
**Figure 5 - Wiring, MK2000C**



**Figure 8 - Wiring, MK2000CBM**

Refer to MK2000CBM installation bulletin, document NAE2028450 for instructions and wiring diagram for installing an MK2000CBM remote indicator.

**Figure 6 - Wiring, MK2000P**



**Technical Data**

Operating voltage	12V DC or 12V AC
Max. current	50 mA
(MK2000CBM)	100 mA
Operation class	continuous operation
Ambient temperature when operating	+32° F to +122° F 0° C to +50°
when stored	-13° F to +158° F -25° C to +70° C
Connection	screw terminal block
Conductor size	AWG 30...12
Tightening torque	5...7 lb-in.
Mounting	by screws
Weight	
MK2000-G1 / MK2000P-G1 / MK2000C-G1 / MK2000CP-G1	0.25 lb
MK2000-G2 / MK2000CBM	0.32 lb