

Iso-Gard™ Series 6 Line Isolation Monitors

Catalog
4805CT1301R01/14
2014
Class 4805



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Iso-Gard™ Series 6 Line Isolation Monitors

Introduction

The Iso-Gard Series 6 Line Isolation Monitor (LIM) manufactured by Schneider Electric includes the following features:

- Automatic operating voltage selection reduces repairs and technical calls and increases customer satisfaction
- Automatic self test with data logging reduces time required to perform periodic testing
- Communications bus provides centralized monitoring of LIM installations to improve predictive maintenance
- Built-in ground fault location system reduces the time required to locate detected fault(s)
- Plain text menu interface makes setting easier and alarms clearer
- Electrical system measurements help determine root cause of detected fault



Feature	Value
Blood warmer proof (bear hugger)	Yes
Measuring range Z_{ISO}	10–999 kW
Measuring range R_{ISO}	20–999 kW
Measuring range C_{LEAK}	10–200 nF
Trip time (0– > 5 mA)	3.5 sec.
Trip tolerance (THC)	4.5–5 mA
Detected fault location	Yes
Event memory with time stamp	Yes
Communication bus compatibility	Full
Device settings	Plain text

Feature	Value
Load current monitoring	Yes
Transformer temperature monitor	Yes
Automatic operating voltage selection	Yes
Automatic self test	Yes (selectable time)
Line to line voltage measurement	70–276 V
Line to ground voltage measurement	> 0–276 V
Detected faulty line indication	Yes
Select different measuring frequencies	Yes
Split core measuring current transformer	Yes



Legacy Product Upgrades

Four Schneider Electric upgrade kits containing the Iso-Gard Series 6 LIM and all other necessary components are now available for replacement of existing Iso-Gard products.



Iso-Gard Series D



Iso-Gard Series A, B, or C
(Series C shown)

Cross Reference Guide

Old Part Number	New Line Isolation Monitor	Connector Plate	Mounting Bracket
IGD-120-5TB	IG6M	IG6C	IG6BKT
IGD-120-2TB			
IGD-208-5TB			
IGD-208-2TB			
IGD-240-5TB			
IGD-240-2TB			
IGD			

The table above provides a **form** and **fit** cross reference. Depending on other devices connected to the existing LIM, additional components may be required for **function**.



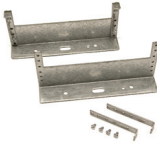
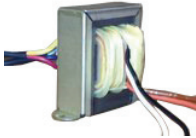

Schneider Electric created the following four upgrade kits to simplify the ordering process. With a single catalog number, you can now purchase all components necessary for the functional replacement of your existing Iso-Gard LIM.

Catalog Numbers

Upgrade Kit	Includes			
	Line Isolation Monitor	Connector Plate with Cables plus Mounting Bracket	Converter Box and Wiring Harness	Transformer
IG6ADKIT	IG6M	IG6CBKTVM	Not included	4800XMIA
IG6BDKIT	IG6M	IG6CBKTVM	4800RA1WMAHA	4800XMIA
IG6DDKIT	IG6M	IG6CBKTVM	4800RA1WMAHA	Not included
IG6KIT	IG6M	IG6CBKTVM	Not included	Not included

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Upgrade Components

Component	Catalog Number	
Series 6 LIM 	IG6M	
Connector plate with cables 	IG6C▲	IG6CBKTVM■
Variable-height mounting bracket ◆ 	IG6BKTVM▲	
Transformer ★ 	4800XMIA	
Connector box and wiring harness 	4800RA1WMAHA	












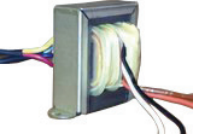
- ▲ Use this part number to order the individual component.
- Use this part number to order the kit containing both components.
- ◆ The mounting bracket can be set to four different heights:
 - 5.125 in.
 - 3.75 in.
 - 3.25 in.
 - 3.00 in.
- ★ Used to supply AC voltage for existing analog devices. May feed up to four devices.

Other Devices

Line isolation monitors also communicate to other devices:

- Remote Indicators
- Nurse Stations
- Annunciator Stations
- Power Modules

When upgrading to the Iso-Gard Series 6 LIM, other components are required to make sure existing devices continue to operate correctly.




If you have one of these remote indicators	You'll need the IG6DDKIT upgrade kit, which contains these components ▲	If you have one of these remote indicators	You'll need the IG6ADKIT upgrade kit, which contains these components ■
 <p>RA1 PM (panel-mounted)</p>  <p>RA1 WM (wall-mounted)</p>	 <p>IG6M</p>  <p>IG6C</p>  <p>IG6CBKTVM</p>  <p>4800RA1WMAHA</p>	 <p>ORICA</p>  <p>IA1C</p>	 <p>IG6M</p>  <p>IG6C</p>  <p>IG6CBKTVM</p>  <p>4800XMIA</p>

▲ These components can be ordered separately or as a kit (catalog number IG6DDKIT).

■ These components can be ordered separately or as a kit (catalog number IG6ADKIT).

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When upgrading to the Iso-Gard Series 6 LIM, some components must be replaced for the proper functioning of all components.

If you have one of these remote indicators and your application requires an ammeter per the NEC ▲	You'll need to replace the remote indicator with one of these	Plus, add the IG6DDKIT upgrade kit, which contains these components ■
 <p>ORICA5C</p> <p>M5IAI</p> <p>M5IAI50</p>	 <p>RA1 PM (panel-mounted)</p> <p>RA1 WM (wall-mounted)</p>	 <p>IG6M</p> <p>IG6C</p> <p>IG6CBKTVM</p> <p>4800RA1WMAHA</p>





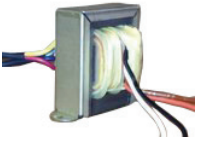
▲ NEC Section 517 (B) Line Isolation Monitors (3) Ampmeter

Exception: The line isolation monitor shall be permitted to be a composite unit, with sensing section cabled to a separate display panel section on which the alarm or test functions are located.

Information Note: It is desirable to locate the ammeter so that it is conspicuously visible to person(s) in the anesthetizing location.

- These components can be ordered separately or as a kit (catalog number IG6DDKIT).

Upgrading Other Devices

If you have one of these remote indicators	You'll need to add these components ▲ ■
<p data-bbox="418 327 683 352">Laser (X-ray) Power Modules</p> <div data-bbox="613 386 760 571">  </div> <p data-bbox="656 583 721 604">XRIADI</p> <p data-bbox="418 617 613 642">Supervisory Stations</p> <div data-bbox="594 680 786 932">  </div> <p data-bbox="662 949 721 970">8CIIAI</p> <p data-bbox="418 982 602 1008">Annunciator Panels</p> <div data-bbox="584 1037 792 1272">  </div> <p data-bbox="656 1285 721 1306">IA8CI ■</p>	<div data-bbox="1104 579 1347 730">  </div> <p data-bbox="1201 743 1256 764">IG6M</p> <div data-bbox="1130 806 1325 945">  </div> <p data-bbox="1182 957 1273 978">4800XMIA</p>







- ▲ While these components are included in the IG6ADKIT upgrade kit, you can order them separately if you don't want the mounting bracket that comes with the kit.
- Applies to other annunciator panels such as the IA4CI, IA12CI, etc.

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Steps for Determining the Required Kit

Since remote indicators can be mounted either in an isolated power panel or in a remote location such as an operating room, you need to look beyond the panel to find all devices being fed by each line isolation monitor.

Step 1: Determine if remote indicators are mounted in the power panel.

When there is a remote indicator mounted in the power panel	If you have this remote indicator	Use this upgrade kit
	 <p>RA1 PM (panel-mounted)</p>	IG6DDKIT
	 <p>ORICA</p>	IG6ADKIT
	 <p>ORICA5C</p>	
	 <p>M5IAI</p>	You must replace this remote indicator when upgrading to the Iso-Gard 6 LIM.
	 <p>M5IAI50</p>	

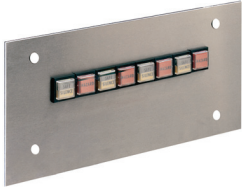


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When there is not a remote indicator mounted in the power panel ▲	If you have this remote indicator	Use this upgrade kit
	 <p style="text-align: center;">RA1 WM (wall-mounted)</p>	IG6DDKIT
	 <p style="text-align: center;">IA1C</p>	IG6ADKIT
	 <p style="text-align: center;">M5IAI</p>	You must replace this remote indicator when upgrading to the Iso-Gard 6 LIM.
	 <p style="text-align: center;">M5IAI50</p>	

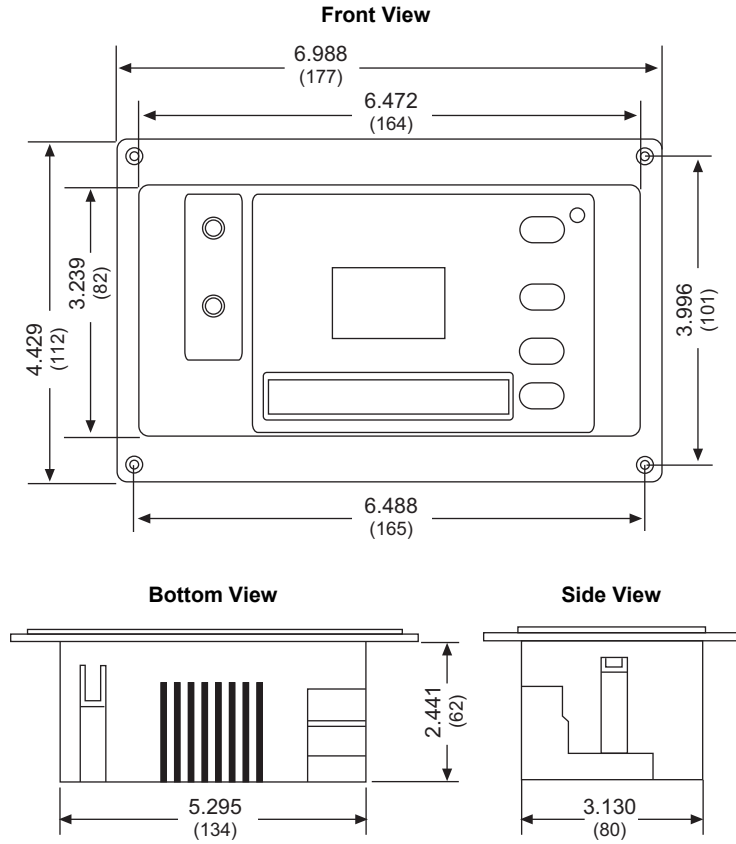
▲ The remote indicator will be mounted in an operating room or other power usage location.

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Step 2: Look for additional remote indicators connected to the power panel.

Device to Look For	Possible Location(s)	Upgrade Kit to Use	Additional Information
<p data-bbox="126 325 308 348">Annunciator Panels</p>  <p data-bbox="280 583 331 606">IA4CI</p>	<p data-bbox="488 457 837 480">Nurse's station or other supervisory area.</p>	<p data-bbox="979 457 1065 480">IG6ADKIT</p>	<p data-bbox="1206 401 1450 424">Process for Control Panels</p> <p data-bbox="1206 432 1471 537">Determine the number of rooms being fed by the panel. Each room will have a remote indicator mounted with the 208 V or 240 V power module.</p>
<p data-bbox="126 615 389 638">Laser (X-ray) Power Modules</p>  <p data-bbox="272 877 339 900">XRIADI</p>	<p data-bbox="488 678 837 743">The remote indicator may not be mounted with the receptacle, so check to see if any of the following are being fed by the panel:</p> <ul data-bbox="521 751 621 837" style="list-style-type: none"> • RA1WM • IAIC • M5IAI • M5IAI50 	<p data-bbox="847 737 1446 779">See page 9 to determine the correct upgrade kit(s) to use for the specific remote indicator(s) listed at left.</p>	
<p data-bbox="126 905 319 928">Supervisory Stations</p>  <p data-bbox="277 1239 336 1262">8CIIAI</p>	<p data-bbox="488 1043 837 1129">Mechanical Interlock control panels will also have a supervisory station. You need to include this in your count of analog remote indicators.</p>	<p data-bbox="979 1073 1065 1096">IG6ADKIT</p>	<p data-bbox="1206 987 1471 1136">If there are more than four rooms, one or more additional transformers (4800XMIA) will be required. See instruction bulletin MED10110103 to determine the correct number and view the connection instructions.</p> <p data-bbox="1206 1144 1414 1186">This kit includes only one transformer.</p>

Dimensions



Dimensions in Inches
(mm)

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