



IMPROX 016

ImproX 016 16 Channel Output Terminal INSTALLATION MANUAL

SPECIFICATIONS

Working Environment	Mounted vertically, with the Cable Entry Glands at the lower side, the Terminal is designed to work in an indoor or outdoor environment similar to IP43.	
Input Voltage	10 V DC to 30 V DC, polarity sensitive.	
Power Requirements	Current (mA)	Power (W)
Input Voltage 10 V DC	35.40	0.36
Relays and Indicators all OFF		
Input Voltage 30 V DC	16.50	0.49
Relays and Indicators all OFF		
Input Voltage 10 V DC	400	4
Relays and Indicators all ON		
Input Voltage 30 V DC	131	3.90
Relays and Indicators all ON		
Relays		
Relay Output	16 Relays, each with NO, COM and NC contacts.	
Relay Contact Ratings	1 A at 30 V DC. 2 A at 125 V AC.	
Status Indicators		
Relay Status	16 Red LEDs (On when Relay operates), (externally visible).	
Power Polarity Indicator	Red LED (internally visible).	
Incoming RS485 Data	Flashing Green LED (externally visible).	
Outgoing RS485 Data	Flashing Red LED (externally visible).	
Unit Status	Red LED (Software controllable) (externally visible).	

INSTALLATION INFORMATION

Accessories

Find the following when unpacking the Terminal:

- An ImproX O16 16 Channel Output Terminal housed in a Black powder-coated Aluminium extruded Cabinet. The Cabinet is sealed at each end with a Nylon End Plate, secured with 4 Allen Head Screws (M3 x 12 mm).
- Two Plastic Bushing Plugs (20.6 mm).
- A 2.5 mm Allen Key.
- An extra Fixed Address Label.

General

Remember the following when installing the Terminal:

Communications Distance

The RS485 communications distance between the first ImproX Controller and the LAST ImproX unit in a cable run, MUST NOT exceed 1 km (1 094 yd). Achieve this by using good quality screened twisted pair cable, with the screen EARTHED at one end.

Jumper Links

Long transmission lines or multiple “star” connections, may cause communication problems. Placing a Jumper Link across the jumper [LNK1] in the LAST UNIT AT THE END OF THE CABLE RUN should solve the problem.

EARTH Connection

Connect the Terminal to a good EARTH point. Using the RS485 Port, connect the EARTH Lead to the ‘ETH’ Terminal. Mains EARTH can be used, but electrical noise may exist.

Blank Space

Arc Suppression

Snubber devices are recommended for EMF Flyback and Arc Suppression when driving an inductive load with the Relay, see Figure 1.

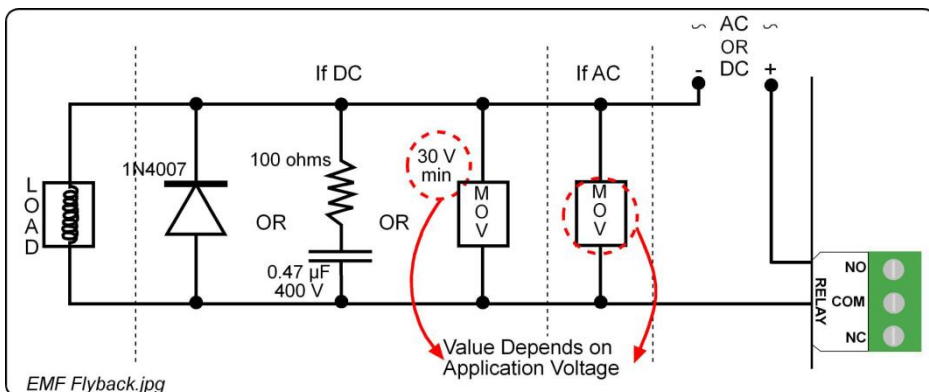


Figure 1: EMF Flyback and Arc Suppression on the ImproX O16

Mounting the Terminal

CAUTION: Make certain that you mount the ImproX O16 on a vibration-free surface.

Select the mounting position of the Terminal, considering accessibility, routing of wires and visibility of the externally visible LEDs.

Secure the enclosure to the mounting surface, using suitable screws and wall plugs, nuts and bolts or rivets.

Blank Space

ELECTRICAL CONNECTIONS

Connecting the Terminal

Figure 2 shows a detailed electrical connection diagram for the Terminal.

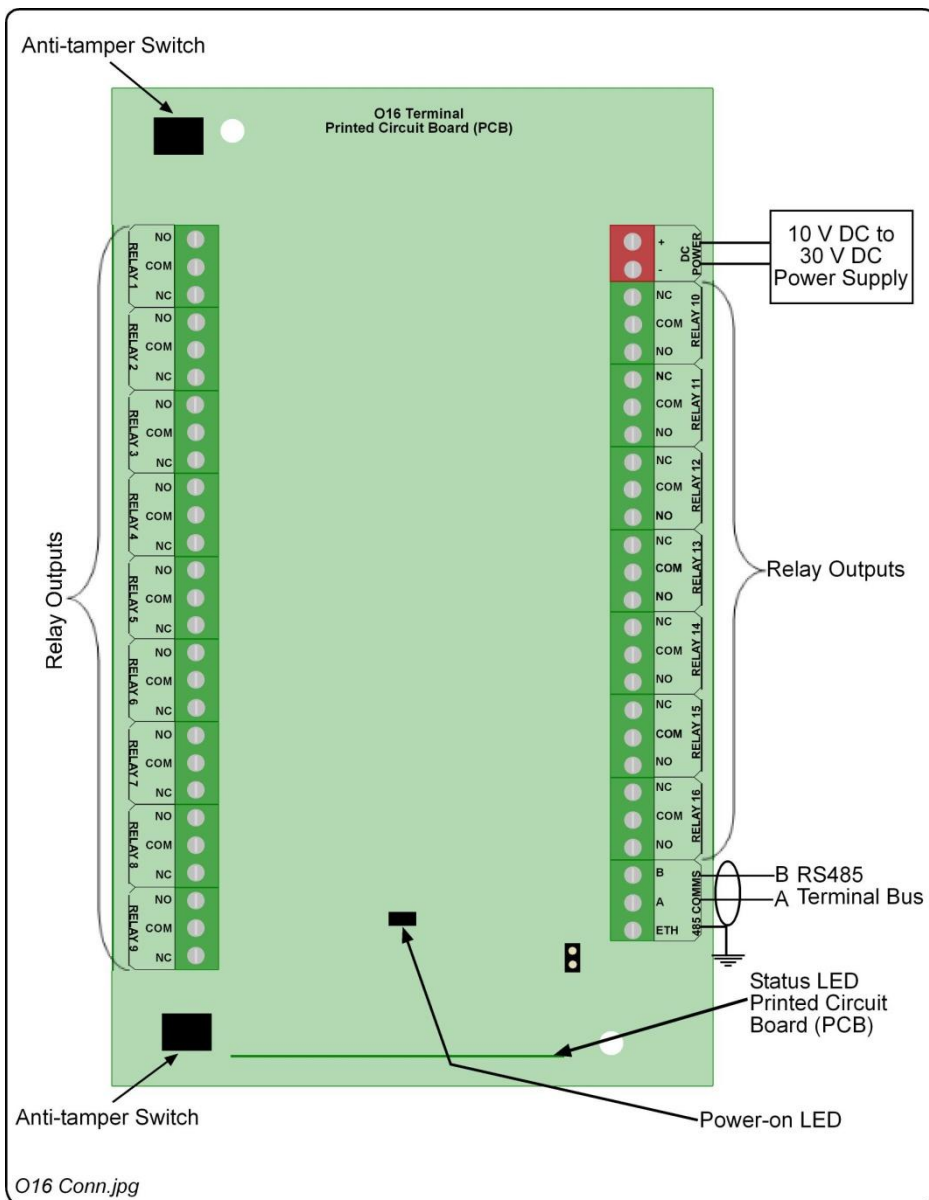


Figure 2: Typical ImproX O16 Electrical Connections

Fixed Address Label

Once the ImproX O16 is installed, sketch a rough site plan. Attach the loose (additional Fixed Address Label packaged with the Terminal) Fixed Address Label in the position of the Terminal on the sketched site plan. When the system installation is complete and all the units are represented on the site plan by their Fixed Address Labels, file the site plan for future reference.

GUARANTEE OR WARRANTY

This product conforms to our Guarantee or Warranty details placed on our Web Site, to read further please go to www.impro.net.

USER NOTES

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This manual is applicable to the ImproX O16 16 Channel Output Terminal,
XOT900-0-0-GB-00.

(The last two digits of the Impro stock code indicate the issue status of the product).

XOT300-0-0-GB-04	Issue 05	Mar 2012	ImproX O16\English Manuals\LATEST ISSUE\ ImprXO16-insm-en-05.docx
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