

## Safety and Warning Information



Connect the DIN Rail via the End Clamp (2A09) to protective earth ground with low impedance. The modules are grounded to PE when they are snapped onto the DIN Rail. Two 2A09 end clamps are supplied with each Power Supply Module.



When used in Hazardous Locations:  
Class I, Division 2, Groups A, B, C & D, T4.  
Substitution of components may impair suitability for Class I, Division 2. Power, input and output (I/O) wiring must be in accordance with Class I, Division 2 wiring methods and in accordance with the authority having jurisdiction. Do not connect/disconnect equipment unless area is known to be non-hazardous and power is switched off. Certified components for use in a suitable enclosure. The maximum ambient temperature is 85°C.

*Important Notice* - Before utilizing the product, the user should determine the suitability of the product for its intended use. The user assumes all risk and liability in connection with such use. WEED INSTRUMENT'S WRITTEN WARRANTY FOR THE PRODUCT IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. The user's exclusive remedy for breach of Weed Instrument's written warranty shall be the repair or replacement of such quantity of product which is proven to be defective. In no case shall Weed Instrument be liable for any special, incidental, or consequential damages based upon breach of contract, negligence, strict liability or other legal theory.

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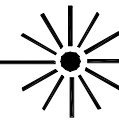
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Weed Instrument

Fiber Optics



## 2C14

EOTec 2000 Electrical Module

### Installation Instructions

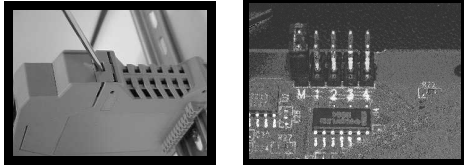


Compatible with:

**Modicon Remote I/O  
Communications Protocol**

## Operational Settings

Use a small screwdriver to press on the latches (indentations) at the top and bottom of the housing. Slide the housing open.



Each module of the modem must be configured based on the network topology to be used. This is accomplished by positioning a single jumper in each module.

Standard (Point-to-Point, Daisy Chain, Star):

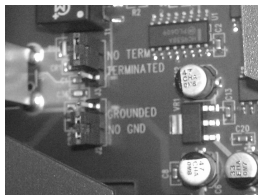
Electrical Module	M
Optical Modules (as added)	1,2,3,4

Self-Healing Ring (Fiber Media Redundancy):

2C30 Self-Healing Ring Module	1
Electrical Module	1
1 <sup>st</sup> Optical Module	2
2 <sup>nd</sup> Optical Module	3

Repeater (a stack consisting of Multiple Optical Modules only or Multiple Electrical Modules only):

1 <sup>st</sup> Module	M
Additional Modules (as added)	1,2,3,4



Jumpers specific to the 2C14 Module:

If the 2C14 module is utilized as termination at the end of a trunk cable *at the head end only*, move the jumper from **NO TERM** to **TERMINATED**.

If the 2C14 module is driving a trunk cable *at a remote location*, move the jumper from **NO GND** to **GROUNDED**.

Close the housing by sliding it back together until both the top and bottom latches "click" into place.

## DIN Rail Mounting

### Installation on DIN rail:

Place the top lip of the module's DIN rail mounting channel onto the DIN rail. Push the lower portion of the module towards the mounting surface until it "clicks" and locks into place. Firmly slide the modules together such that the module sides are touching. This ensures a good connection of the integrated BUS interconnection at the rear of the modules. Install End Clamps (Model 2A09) to both sides of the module bundle to prevent accidental unplugging of the BUS interconnections. The End Clamps also provide convenient screw terminals for connecting the DIN rail to Protective Earth (PE) ground.

### Removal from DIN rail:

Remove the End Clamps from the module bundle. Disconnect the BUS interconnections by sliding the modules at least 1/2" apart from each other on the DIN rail. Insert a screwdriver into the rectangular hole in the metal mounting latch at the bottom of the module. Pushing up on the screwdriver's handle causes the latch to move downward and disengages it from the DIN rail. Tilt the module up and lift it off of the DIN rail.

## Connections

Power to the unit is supplied from any EOTec 2000 Power Supply via the module's integrated BUS interconnections.

The communications protocol wire connections are made via the F-Type connector on the front of the module. Follow Modicon Remote I/O requirements for installing TAP and drop cables.

## Technical Notice

**The Model 2C14 is compatible with EOTec 6000 modem networks that utilize the 6C14 Electrical Interface Module with serial numbers 0062676 and above. The 2C14 is NOT compatible with modem networks that contain 6C14 modules with serial numbers 0062675 and below.**

## LED Indicators

PWR (Power):

Green - On with power connected

COM (Communications):

Amber - Blinks with activity to/from the wire cable connection

## Specifications

Mounting:	35mm DIN Rail
Weight:	< 9 oz (250g)
Power Requirements:	7.5 to 9.5Vdc @ 200mA Supplied from any EOTec 2000 Power Supply (except 2A50) via the integrated BUS interconnections
Protocol:	Modicon Remote I/O
Data Rate:	1.54M Baud
Wire Cable Connection:	F-Type, coaxial
Wire End Termination:	Internal, 75 Ohms
Maximum wire cable and TAP loss:	-34dB
Operating Range	
Temperature:	-40 to 85°C
Relative Humidity:	0 to 95% (non-condensing)
Flammability:	UL 94V-0
Hazardous Locations:	Class I, Division 2, Groups A, B, C & D, T4