

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.



When used in Hazardous Locations:
Class I, Division 2, Groups A, B, C & D, T4
Do not disconnect equipment unless area is known to be non-hazardous. Certified components for use in a suitable enclosure. Substitution of components or other equipment modification may impair suitability. Maximum ambient temperature: 85°C

Further technical information can be obtained by contacting Weed Instrument Co., Inc., Fiber Optic Products Group.

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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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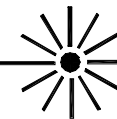
Publication Number:

RM0900098 Rev. 11/02



Weed Instrument

Fiber Optics



2C10

EOTec 2000 Electrical Module

Installation Instructions

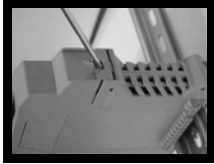


Compatible with:

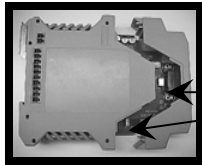
**RS-232 and RS-485
Communications Protocols**

Operational Settings

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



Select the desired protocol with the configuration jumper marked "RS-232" and "RS-485".



Jumper Locations

Additionally, 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):

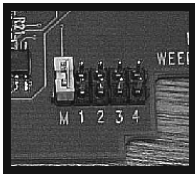
Electrical Module	M
Optical Modules (as added)	1,2,3,4

Self-Healing Ring (Fiber Media Redundancy):

Self-Healing Ring Module	1
Electrical Module	1
1 st Optical Module	2
2 nd Optical Module	3

Repeater (Multiple Optical or Electrical Modules):

1 st Module	M
Additional Modules (as added)	1,2,3,4



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 at the bottom-front of the module. A pluggable, cage-clamp, screw terminal block is connected as follows (terminals numbered from left to right):

RS-232 Terminal 1	no connection
Terminal 2	Common (COM)
Terminal 3	Transmit (TXD)
Terminal 4	Receive (RXD)

RS-485 Terminal 1	Shield (PE)
Terminal 2	no connection
Terminal 3	A Input/Output
Terminal 4	B Input/Output

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 via the integrated BUS interconnections
Protocols	
RS-232:	Asynchronous (no handshake lines) Point-to-Point, Half-Duplex
RS-485:	Asynchronous, Multi-Drop, Half-Duplex
Data Rates	
RS-232:	9.6K to 115.2K Baud
RS-485:	9.6K to 230.4K Baud
Screw Terminals:	Accept 12 to 24 AWG
Cable End Termination:	External (user supplied) Based on specifications of the wire cable used
Maximum Devices and Cable Length Supported	
RS-232:	1 Device, 50 feet
RS-485:	30 Devices, 2000 feet
Operating Range	
Temperature:	-40 to 85°C
Relative Humidity:	0 to 95% (non-condensing)
Flammability:	UL 94V-0
Hazardous Locations:	FM, Class I, Division 2, Groups A, B, C & D, T4