

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.

Weed Instrument Co., Inc. Round Rock, Texas, USA

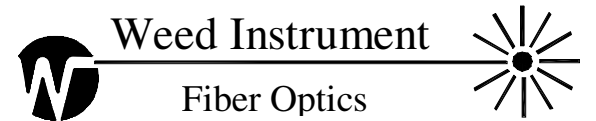
Further technical information can be obtained by contacting Weed Instrument Co., Inc., Fiber Optic Products Group.

Phone: 800.880.9333
512.434.2850

Fax: 512.434.2851

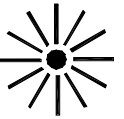
Email: fiberop@weedinstrument.com

Visit: www.weedinstrument.com



Weed Instrument

Fiber Optics



2C29

EOTec 2000 Electrical Module

Installation Instructions

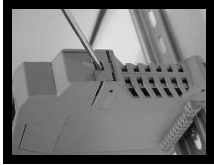


Compatible with:

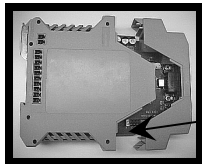
Modicon ModBus Plus*
Communications Protocol

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.



Jumper Location

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):

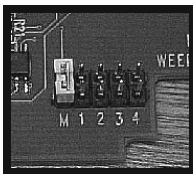
Electrical Module	M
Optical Modules (as added)	1,2,3,4

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. This interconnection bus also provides intercommunications between the adjacent modules in the modem stack.

The Modbus Plus wire connections are made via the DB-9F connector on the front of the module. This connector and its wiring is ModBus Plus compatible. Follow ModBus Plus requirements for installing and using the ModBus Plus terminated or non-terminated connectors on the wire cable.

Pin 1	Shield
Pin 2	Transmit/Receive A (+ non-inverted)
Pin 3	Transmit/Receive B (- inverted)
Pin 4 – 9	Unused (no internal connections)

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
Protocol:	Modicon ModBus Plus
Data Rate:	1.0M Baud
Wire Cable Connector:	Standard ModBus Plus connector (DB-9F) compatible w/Schneider P/N AS-MBKT-085 or AS-MBKT-185
Cable End Termination:	External 120ohms, user supplied, termination must be used at both ends of any wire cable segment.
Maximum Devices and Cable Length Supported:	32 Devices, 1500 feet
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

* ModBus Plus is a trademark of Groupe Schneider