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 in operation, do not look directly into the transmit optical port or use magnification or focusing equipment to view optical output.

IEC 60825-1, Class 1 LED Product
FDA 21 CFR 1040.10 & 1040.11

CAUTION: Use of controls and/or adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

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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Publication Number: RM0900120 Rev. 1/08

Weed Instrument
Fiber Optics

2E10

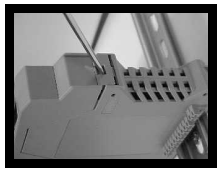
EOTec 2000 Optical Module

Installation Instructions

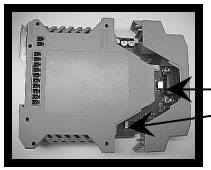
For use with Multimode Glass Fiber
ST* Compatible Fiber Connections
850nm Optical Wavelength
High Optical Power Output
Data Rates from 9.6k to 12Mbps

Operational Settings

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



The transmit optical power level default jumper position setting is "H" (High). Select position "L" (Low) *only* in overdriving (short fiber) conditions.



Jumper Locations

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):

Refer to Self-Healing Ring Installation Instructions for proper jumper settings.

Repeater (Multiple Optical or Electrical Modules):

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

Additionally, each Optical Module must be configured for the protocol being used. This is accomplished by positioning a single jumper (J4).

DeviceNet	D
Profibus-DP	P
Profibus-DP Self-Healing Ring only	PR
ControlNet Self-Healing Ring only	CR
All remaining protocols	E
(Future expansion - undefined)	F

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 ensuring 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.

LED Indicators

RX (Receive Optical Activity Indicator):
Amber - On or blinking with activity

TX (Transmit Optical Activity Indicator):
Green - On or blinking with activity

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
Data Rates:	9.6K to 12Mbps
Optical Wavelength:	850nm, LED
Fiber Compatibility:	62.5/125µm, Multimode 200/230µm, Multimode
Optical Connections:	ST* Compatible
Optical Dynamic Range (utilizing fiber size)	
62.5/125µm:	17dB
200/230µm:	23dB
Operating Conditions	
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

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