Safety and Warning Information

Connect the DIN Rail via the End Clamp to protective earth ground with low impedance. The modules are grounded to PE when they are snapped onto the DIN Rail. Two End Clamps are supplied with EOTec 2000 Power Supplies.

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

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

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Visit: www.weedinstrument.com

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.

Manufactured by:
Weed Instrument Co., Inc.
Round Rock, Texas, USA

www.weedinstrument.com

Publication Number: RM0900089 Rev. 6/04

Weed Instrument
Fiber Optics

2C30
Self-Healing Ring Module

Installation Instructions

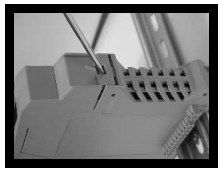
Self-Healing Ring Module

Provides
Fiber Media Redundancy
when utilized in each node of a
fiber-ring network.

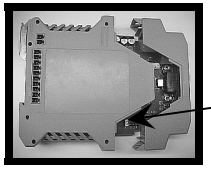
Detects and redirects data when a break in the fiber occurs between two adjacent nodes.

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 (except power supply) 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):

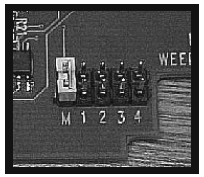
Electrical Module	M
Optical Modules (as added)	1,2,3,4

Self-Healing Ring (Fiber Media Redundancy):

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

Repeater (Multiple Optical or Electrical Modules):

1st 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 (two are supplied with each Power Supply) 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 an EOTec 2000 Power Supply Module via the module's integrated BUS interconnections.

Two sets of relay contacts are available to provide remote indication of the fiber ring integrity. Each contact set will remain closed as long as the receive optical signal at its corresponding Optical Module is acceptable. The contact set will open to indicate a loss of receive optical signal. Connection to the relay contacts are made via a pluggable, cage-clamp, screw terminal block at the bottom-front of the module (terminals are numbered left to right).

Terminals 1 & 2	Contacts for Optical Module with jumper at position 2
Terminals 3 & 4	Contacts for Optical Module with jumper at position 3

LED Indicators

The two bi-color LEDs, on the front of the module provide visible indication of the fiber ring status. The LED labeled OPT2 is the indicator for the Optical Module with its jumper in position 2. The LED labeled OPT3 is the indicator for the Optical Module with its jumper in position 3. These LEDs will be illuminated green when the receive optical signal from the corresponding Optical Module is acceptable. The LED will turn red when that corresponding Optical Module looses the signal from its receive optical port.

Specifications

Mounting:	35mm DIN Rail
Weight:	< 9 oz (250g)
Power Requirements:	7.5 to 9.5Vdc @ 200mA Supplied from an EOTec 2000 Power Supply via the integrated BUS interconnections
Data Rate:	9.6K to 2M Baud
Relay Contact Rating:	175Vdc, 0.25A Switching, 1A Continuous
Screw Terminals:	Pluggable terminal block accepts 12 to 24 AWG
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