

Safety and Warning Information



Only **one** additional module (Ethernet Switch or Ethernet Switched Media Converter) may be connected to the module's BUS interconnection.



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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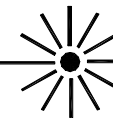
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Weed Instrument

Fiber Optics



2C53

EOTec 2000 Ethernet
Unmanaged Switch

Installation Instructions



Ethernet Standards: IEEE 802.3(U)(X)

Ethernet Protocols: All 802.3 supported

Ports

RJ45 Ports (4): 10/100Base-T(X)

BUS Port: 100Base-TX

Module Power Input

Requirement: 10 to 30 Vdc @ 200mA

Connection: Pluggable Cage-Clamp
Screw Terminal block

Operation

Little or no user configuration and no supervisory processor are required, once connections are made, the unit will immediately begin operating. The data rates are automatically negotiated and the ports will auto-sense Full or Half duplex operation. The unit will automatically learn the addresses of the devices connected to each port (up to 1024) and will buffer and route messages accordingly. Each port has 205 buffers of 128 bytes each. Broadcasts/Multicasts will be sent out all but the source port and are limited to 25% of the available bandwidth.

The unit supports flow control frames on both transmit and receive. Illegal frames per IEEE 802.3 will be dropped. Packets experiencing 16 collisions or late collisions (after 512 bit times) will also be dropped.

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 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:

The module can be powered from any supply capable of delivering 10 to 30Vdc at 200mA per module. Power connection is via a removable screw terminal block located at the bottom of the front panel. If two modules are interconnected via the BUS, either module (or both) may be connected to power.

Ethernet:

The front panel RJ45 connectors are shielded and employ an auto-crossover circuit such that either a straight-through or cross-over cable may be connected. Shielded, data-quality, category 5 cable is recommended. The typical maximum cable length is 328ft(100m).

There is an additional Ethernet port in the module's integrated BUS interconnections. At this port, **one** additional EOTec 2000 Ethernet Switch or Ethernet Switched Media Converter Module can be connected to assist in forming star and/or daisy chain network configurations.

LED Indicators

PWR (Power): Green - On with power connected

(RJ45 Ports)

ACT: Green - Off with no connection
On with proper link
Flashes with link activity

100: Amber - Off at 10Mbps
On at 100Mbps

BUS/ACT

(BUS Port): Green - Off with no connection
On with proper link
Flashes with link activity

Specifications/Compliances

Ethernet Standards:	IEEE 802.3(U)(X)
Ethernet Protocols:	All standard IEEE 802.3
Ethernet Isolation:	1200VRMS (1 minute)
Ethernet Ports	
4, Shielded RJ45:	10/100 Base-T(X)
1, Interconnect BUS:	100 Base-TX
Ethernet Cable Length:	328ft (100m) max typical
Power Requirements:	10 to 30Vdc, 200mA max
Power Connector:	Pluggable, Cage-clamp, Screw terminal block, Accepts 12 to 24AWG
Weight:	< 6.5oz (185g)
Operating Range	
Temperature:	-40 to 85°C
Relative Humidity:	5 to 95% (non-condensing)
Flammability:	UL 94V-0
Hazardous Locations:	Class I, Division 2, Groups A, B, C & D, T4