Weed Instrument

EOTec 2000 Ethernet

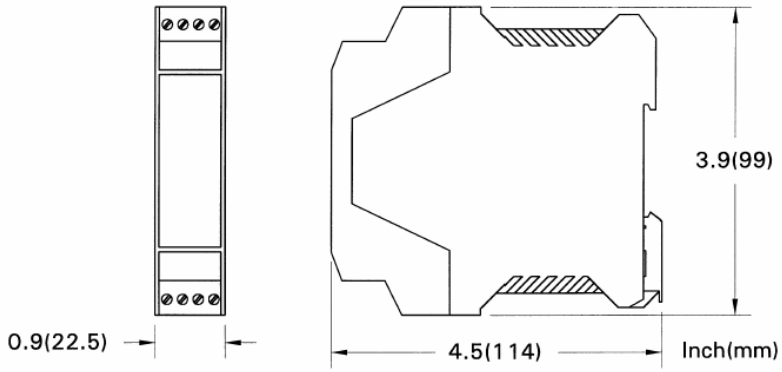
2E54 Switched Media Converter Expansion Module

The 2E54 Switched Media Converter Module provides fiber optic conversion to and from wire based Ethernet. The Fiber port operates at 100Mbps and the RJ45 port will auto-negotiate its data rate between 10/100Mbps, Full/Half duplex operation. The 2E54 will automatically learn the addresses of the devices connected to each port (up to 1024) and will buffer and route messages accordingly. Visual (LED) indicators display the status of all ports/links. There is an additional Ethernet port in the module's integrated Interconnection Bus. This Bus port provides connection for **one** additional EOTec 2000 Ethernet product such as the 2104 Ring Switch and assists in forming star or daisy chain network configurations.

SPECIFICATIONS

Mechanical:

Mounting:	35mm DIN Rail
Weight:	< 6oz (170g)



Power Requirements:	7.5Vdc @ 500mA, via the Interconnection Bus (A compatible EOTec 2000 Power Supply Module or 2104 Ring Switch)
Ethernet Compliance:	IEEE 802.3(U)(X) Compliant, All standard protocols

Wire Connection Ports

RJ45 Port:	10 or 100Mbps (10/100Base-T(X)), Full or Half Duplex, Auto-negotiating, 328ft/100m
Bus Port:	100Mbps (100Base-TX), Full Duplex, connection to one additional module maximum

Optical Ports

Wavelength:	1300nm
Data Rate:	100Mbps (100Base-FX), Full Duplex
Connectors:	ST compatible (ST is a trademark of AT&T)
Fiber Type/Size:	Multi-Mode fiber; 50 to 100µm core diameter
Dynamic Range:	Power out -20dBm, Receive sensitivity -32dBm, 6560ft/2km

Status Indicators

Power:	Green LED;	On when proper power is connected
Port Activity:	Green LED;	Off when no connection is detected on port On with connection to port established Flashing to indicate activity on port
Port Speed (RJ45):	Amber LED;	Off when data rate is 10Mbps On when data rate is 100Mbps

Ambient Conditions:	-40°C to 85°C Operational 0 to 95% Relative Humidity Non-Condensing

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FM Approved

Class I, Division 2,
Groups A, B, C & D

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Rev. 9/07
Pub: RM0900629