

ISO-ETH-P
Industrial 10M/100M Ethernet
Surge Protector
Datasheet Revision 2.1



GENERAL FEATURES:

- Three stage protection of both lines of the RS-485 port
- Passive: no need for external power
- Plug-and-Play (Device is hot-pluggable)
- RJ45 connections for easy installation
- Clamping voltage at 6.8 volts
- 600W of surge protection
- 5 year manufacturer's warranty
- RoHS, CE, and FCC certified

DESCRIPTION:

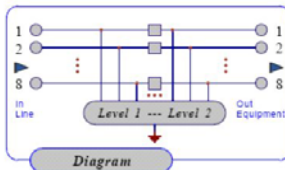
The SerialComm ISO-ETH-P is an industrial-grade (wide temperature range) bi-directional passive Ethernet surge arrester. It can protect any standard 10Base-T/100Base-TX Ethernet port from voltage peaks, and spikes caused by lightning and other power surges. The unit is passive, therefore, no external power or flow control is required. The ISO-ETH-P has a RJ45 on one Ethernet side and another RJ45 on the other Ethernet side.

The ISO-ETH-P is designed with top quality high response surge arresters. The low capacitance protection provides a clamping voltage with low loss against the high speed signal. The ISO-ETH-P is designed to protect data communication lines in local and wide area networks up to 100Base-T transmission speeds.

CERTIFICATIONS:

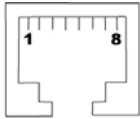


FUNCTIONAL DIAGRAM:



PINOUT CONFIGURATION

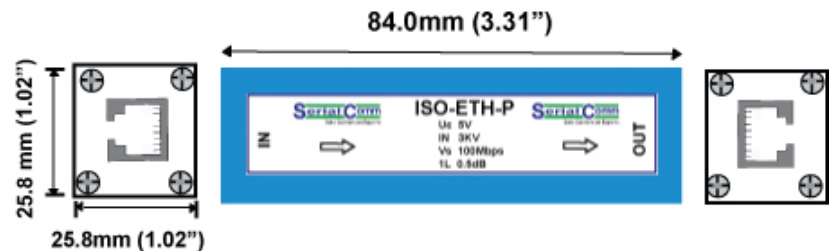
RJ-45 FEMALE CONNECTORS PROTECTED LINES (1,2,3,6)								
Signal	TX+	TX-	RX+	N/C	N/C	RX-	N/C	N/C
Pin #	1	2	3	4	5	6	7	8
Function	TX+	TX-	RX+	N/C	N/C	RX-	N/C	N/C



SPECIFICATIONS:

COMMUNICATION	
STANDARDS:	10Base-T/100Base-TX Standard, IEC61000-4-5 and ITU-TK20&K21 Standards
BAUD RATES:	Up to 100 Mbps
CONNECTOR TYPES:	RJ45 Female Connectors
ELECTRICAL	
POWER SOURCE:	Passive Device: No Power Needed.
WORKING VOLTAGE:	0 Volts to 5 Volts
VOLTAGE CLAMP:	6.8 Volts
VOLTAGE LIMIT:	40 Volts
INSERT CONSUMPTION:	< 0.5 db
DELAY TIME:	< 1 ns
MECHANICAL	
HOUSING:	Heavy Duty Steel Casing
WEIGHT:	0.35oz (10 grams)
DIMENSIONS:	3.31" X 1.02" X 1.02" (84.0 mm X 25.8 mm X 25.8 mm)
ENVIRONMENTAL	
OPERATING TEMP:	-40° F to 185° F (-40°C to 85° C)
OPERATING HUMIDITY:	5% To 95% - No Condensation
QUALITY	
PRODUCT SAFETY:	CE, FCC and RoHS Conformance Certified
RELIABILITY:	Low Failure Rate - 99.9% Reliability Since Inception
WARRANTY:	5 Year Replacement Warranty

DIMENSIONS:



APPLICATIONS:

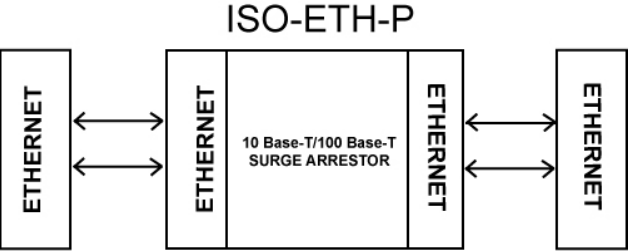


FIGURE 1: 600W SURGE SUPPRESSION CONNECTION DIAGRAM