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## RS-485 Isolator / Repeater 3-Port 1 KV Optical Isolation

Product Datasheet

MPN: - AT-ISO-485

### INTRODUCTION

- The RS 485/422 Isolator / Repeater – ISO 485/422 is primarily intended to provide complete Isolation between communication devices, so that they are protected against any inadvertent damage due to electrical disturbances. The ISO 485/422 also provides necessary immunity to a System against Electrical Noise Interferences and differential ground.
- The Product can also be used for extending the operational distance by acting as a Serial Repeater / Amplifier.
- ISO 485/422 is available as a compact unit enclosed in a metal casing, which takes power from the supplied Power adaptor.
- The Converter is populated with Surface Mount components for good reliability and to reduce the size. At the same time, it is equipped with good and reliable Isolation to Data signals.
- The repeater is designed to be plug-and-play and does not require any additional configuration or settings.

### APPEARANCE



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### POWER PARAMETERS

No. of Power Inputs	1
Supply Voltage	24 VDC
Current Consumption	10mA @24V
Reverse Voltage/ESD Protection	Yes
Short Circuit Protection	Yes
Power Isolation	1.5 kV Galvanic
Indications	Power ON, TxD, RxD

### ENVIRONMENTAL LIMITS

Operating Temperature	0°C to 75°C
Storage Temperature	-10°C to 85°C
Ambient Relative Humidity	10 to 95% (non-condensing)
Certifications	RoHS
IP Class	IP-54

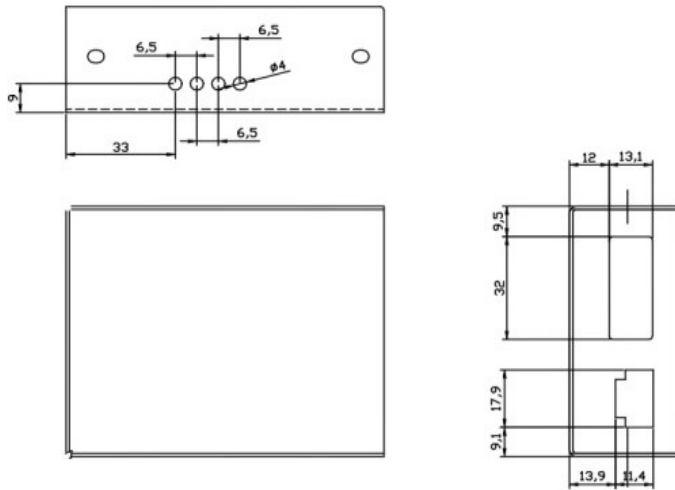
### PHYSICAL CHARACTERISTICS

Housing	Metal
Dimensions	96.80mm X 78.15 mm X 34.08 mm (H X L X W)
Weight	180 g
Installation	DIN-rail mounting Panel mounting (optional & Mounting drawing needs to be requested)
MTBF time	80000 hrs , Telcordia (Bellcore) Standard

### SERIAL SPECIFICATION

Number of ports	2
Port 1	RS-485 : D+, D-, GND
Port 2	RS-485 : D+, D-, GND
Serial Standards	RS-485 compatible with EIA/TIA
Isolation for serial ports	Optical Isolation
Baud rate Supported	0 to 128000 bps (self-adaptive)
Protocol	Modbus RTU/ASCII
Transmission mode	Bi-Directional ,Half-Duplex
RS-485 Data Direction Control	ADDC (Automatic Data Direction Control)
Surge Suppression	<b>Method:</b> TVS <b>Rating:</b> 6.5V, Bi-Directional, 600W peak power dissipation <b>Lines Protected:</b> Data Lines (Input ,Output)
Reverse Voltage/ESD Protection for RS_485	Yes
Warranty	12 Month

### MECHANICAL DIMENSIONS



Vertical Box Cover

**ORDERING INFORMATION**

MPN	Description
AT-ISO-485	Industrial Isolated RS-485 Isolator/Repeater

AVYANNA TECH PVT. LTD.

301, 3rd floor, Span House, Opp. Arogya Diagnostic Clinic, Near Moze College of Engineering, Balewadi, Pune- 411045, Maharashtra, India

Mob: 9881196976/8484048963

| [info@avyannatech.com](mailto:info@avyannatech.com)

| [www.avyannatech.com](http://www.avyannatech.com)