



- Protect sensitive equipment from damage.
- Ensures reliable communication in noisy industrial environment.
- Extends RS485/422 network beyond their usual distance limits.
- Simplifies setups with zero configuration.

Introduction

The RS 485/422 Isolator / Repeater – It is primarily intended to provide complete Isolation between communication devices, so that they are protected against any inadvertent damage due to electrical disturbances. It 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.

Specifications

Serial

Port Isolation	3-port 1.5kV Galvanic + data line optically isolated
Transmission Mode	Bi-Directional Half Duplex
Baud Rate	up to 128.0 kbps (self-adaptive)
Parity	Any
Data Bits	Any
Stop Bits	Any
Terminating Resistor	In-built 120 ohm
Pull High/ Low Resistor for RS485	In-built 10 kilo-ohm
Serial Signals	RS-485 (A/D+, B/P/D-, GND)
Serial Standards	RS485 compatible with EIA/TIA
Protocol	Modbus RTU/ASCII
Transmission mode	Bi-Directional ,Half-Duplex
RS485 Data Direction Control	ADDC (Automatic Data Direction Control)

Connectivity

RS485	2
Serial Connector type	2-Terminal block

Power Parameters

Power input (VDC)	24V Fixed
Current Consumption	10mA @24V
Reverse Voltage/ESD Protection	Yes
Power Isolation	1.5 kV Galvanic
Indications	Power ON, TxD, RxD
Short Circuit Protection	Yes
Power Connector	Terminal block
Power Consumption	0.24W

Physical Characteristics

Housing	Metal
Mounting	DIN-rail
MTBF time	80000 hrs , Telcordia (Bellcore) Standard

Environment

Operating Temp.	0°C to 60°C
Operating Humidity	20 to 95 %
Input Reverse Protection	Yes

Order Information

Part No.	Description
AT-5IA	Industrial Isolated RS-485 Isolator/Repeater



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