MA-52
RS-232/V.24 Isolator

Field of application

The MA-52 can be used to provide galvanic isolation between equipment with RS-232/V.24 interfaces. One application could be to isolate a serial printer from a nearby PLC on the factory floor. Isolators are often used to solve problems like earth potential differences, transients or other noise.

The MA-52 isolates a total of eight signals in the RS-232 line, four in each direction, making the unit ideal for asynchronous systems. The maximum data rate of the MA-52 is 19.2 kbit/s.

- RS-232/V.24 interface
- Use to connect equipment on different earth potentials
- Protects connected units from lightning/ transients
- Guarantees reliable communications

Application

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Transmission	Asynchronous, full/half duplex or simplex
Interface 1	EIA RS-232-C/ITU-T V.24, 9-position D-sub connector, male/female alt. 8-position modular RJ-45 connector
Transmission rate	Up to 19.2 kbit/s
Indicators	Power, TD, RD
Weight, kg	0.5
Mounting	Table top

Model description	MA-52 AC
Power supply	115/230 V AC +15/–10%
Frequency	48–62 Hz
Fuse, F1	100 mA F 5x20 mm Littlefuse
Power consumption	44 mA / 22 mA
Transient protection Power/Line	Yes/Yes
Isolation RMS Data interfaces	1 500 V

Interface 1

Direction	Connection		ITU-T V.24 Code	Description
	D-sub	RJ-45		
O	1	(2)*	109	DCD/Data Carrier Detect
O	2	5	104	RD/Received Data
I	3	6	103	TD/Transmitted Data
I	4	3	108/2	DTR/Data Terminal Ready
–	5	4	102	SG/Signal Ground
O	6	(2)*	107	DSR/Data Set Ready
I	7	8	105	RTS/Request To Send
O	8	7	106	CTS/Clear To Send
O	9	1	125	RI/Ring Indicator

*(2) With the switch blocks S1/S2 can DSR or DCD be selected to be on pin 2.

I=Input into modem **O**=Output from modem