

# RD-48 Repeater

## *Field of application*

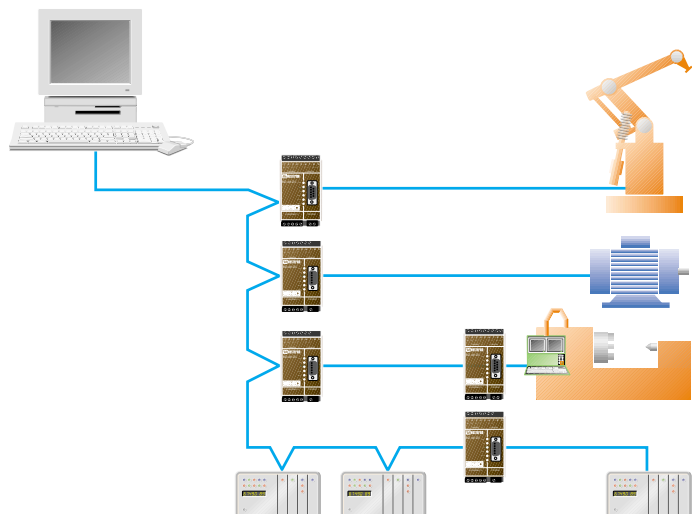
The RD-48 can be used to extend an RS-422/485 bus or as a converter between 2- and 4-wire systems. The unit can also be used as isolator to protect for example a PLC from transients or lightning.

The standard RS-422/485 bus supports 32 nodes at a distance of 1 200 metres, the RD-48 gives you another 31 nodes and further 1 200 metres. The RD-48 is designed to clip for a standard 35 mm top hat DIN rail.



- Extension of RS-422/485 bus
- Conversion between 2- and 4-wire applications
- Protects connected units from lightning/transients
- Galvanic isolation
- Functions independently of codes
- Units provide totally transparent data communication
- Use to connect equipment on different earth potentials
- Guarantees reliable long-distance communication

## *Application*



Transmission	Asynchronous, full/half duplex or simplex
Interface 1	EIA RS-422/RS-485/V.11, 5-position screw block
Transmission rate	Up to 1.5 Mbit/s
Indicators	Power, RD, TD
Weight, kg	AC 0.4, DC 0.25
Mounting	35 mm DIN-rail

### Technical data

Model description	RD-48 AC	RD-48 115 V AC	RD-48 DC
Power supply	230 V AC +15/-10%	115 V AC +15/-10%	24 V DC +50/-50%
Frequency	48-62 Hz	48-62 Hz	—
Fuse, F1	100 mA F 5x20 mm	100 mA F 5x20 mm	1,6 A F 5x20 mm
Power consumption	25 mA	50 mA	1.6 W
Transient protection			
Power/Line	Yes/Yes	Yes/Yes	—/Yes
Isolation RMS			
Data interfaces	1 500 V	1 500 V	1 500 V
Power supply	3 000 V	3 000 V	1 500 V

### Power supply alternatives

Interface 1		
Direction	Pos. no.	ITU-T V.11 Description
I	1	A' (R+)
I	2	B' (R-)
I/O	3	A (T+)
I/O	4	B (T-)
—	5	Shield

### Connections

I=Input into repeater O=Output from repeater