

# RD-48

## RS-422/485 Repeater

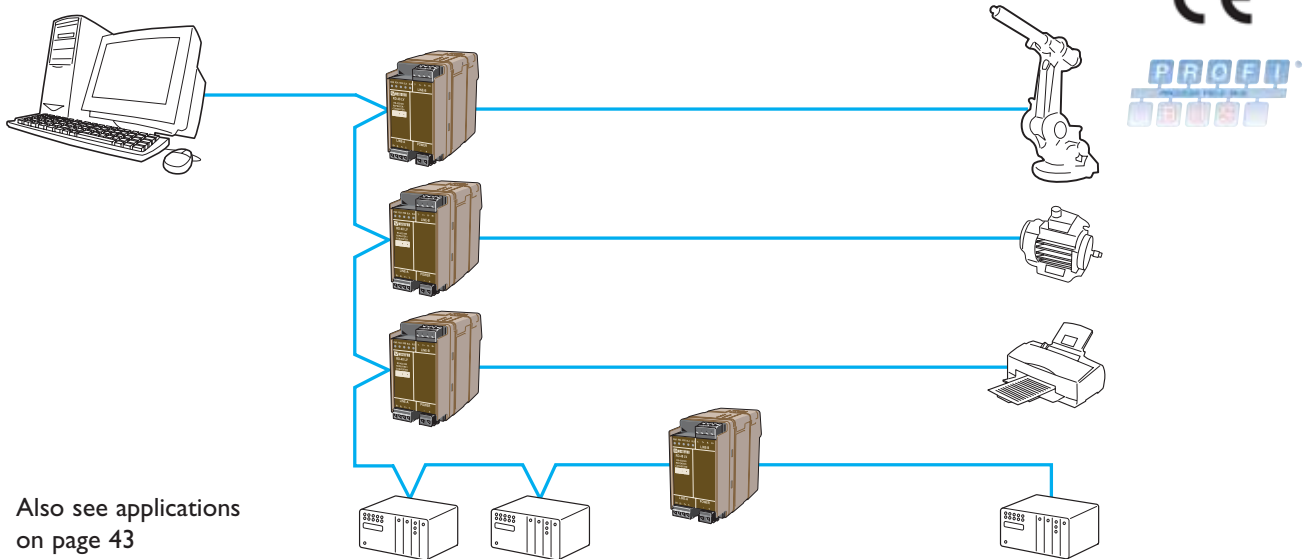


- Repeater with retiming for high data rates
- 2-/4-wire conversion
- Full termination and failsafe switch selectable
- Transient suppression
- Galvanic isolation
- Profibus DP compatible
- Also available with extended temperature range
- Ensures communication over long distances and in environments with high levels of interference
- AC-/DC-supply
- Reliable performance and function

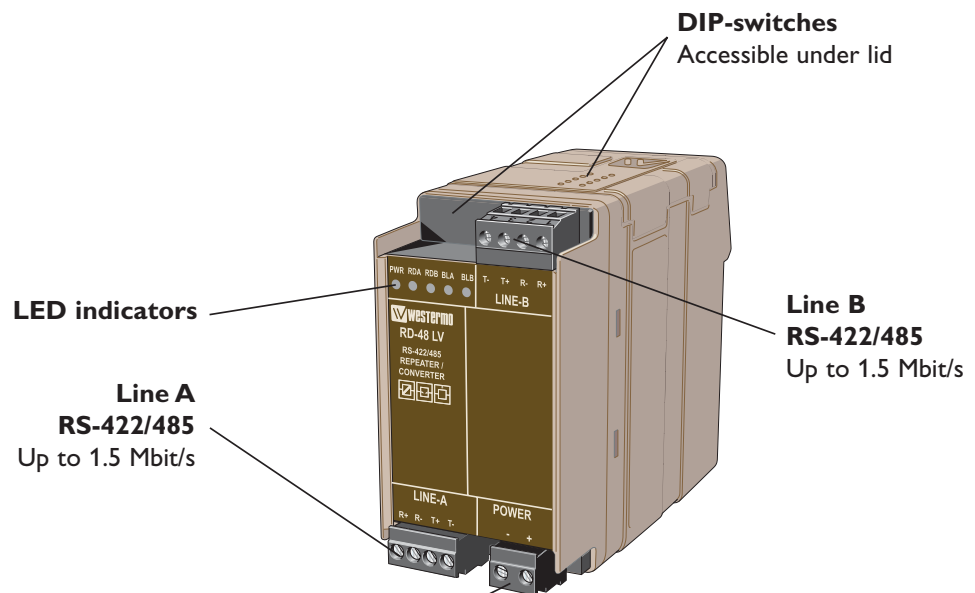
### Field of application

RD-48 is used to extend an existing RS-422/485 bus or as a converter between 2-wire and 4-wire applications. According to the standard the RS-422/485 bus can support a total of 32 connected devices and a transmission range of up to 1200 metres (4000 ft). Up to 8 repeaters can be used in series to extend the range or the number of connected devices. Each repeater allows a further 1200 metres (4000 ft) range and an additional 31 connected devices. RD-48 supports data rates up to 1.5 Mbit/s. The RD-48 provides total galvanic isolation, so it can also be used as an isolator to protect equipment e.g. a PLC. RD-48 is intended for mounting on a 35 mm DIN-rail, where the modem is attached and locked in a single action.

## Application



## Interface



## Power

	<b>RD-48 HV</b>	<b>RD-48 LV</b>
Operating voltage	85.5 – 264 VAC	9.6 – 57.6 VDC
Rated current	20 mA @ 230 VAC	80 mA @ 48 VDC, 300 mA @ 12 VDC
Rated frequency	48 – 62 Hz	DC
Connection	Detachable 3-pos. screw terminal	Detachable 2-pos. screw terminal