

MD-45

RS-232 to RS-422/485 Converter



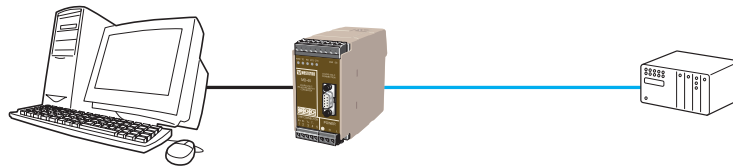
- ❑ Conversion between RS-232 and RS-422/485
- ❑ Can be used for multidrop applications with RS-232 devices
- ❑ Direction controlled by data flow
- ❑ Galvanic isolation
- ❑ Full termination and failsafe switch selectable
- ❑ Transient suppression
- ❑ Code independent/transparent
- ❑ Reliable performance and function over long distance and in environments with high level of interference
- ❑ Serial connection, screw terminals or D-sub
- ❑ AC-/DC-supply

Field of application

MD-45 is used as an interface converter between RS-232 and RS-422/485 or when point-to-point communication is needed at data rates up to 115.2 kbit/s. The device can communicate on 2-wire or 4-wire cable up to 1200 metres (4000 ft). In multidrop applications the MD-45 supports up to 32 connected devices on the bus. With 2-wire systems the communication direction is controlled by the data flow, i.e. the converter detects the data and switches the communication direction depending from which side the data has been sent. This makes it possible to connect equipment that cannot generate handshaking signals.

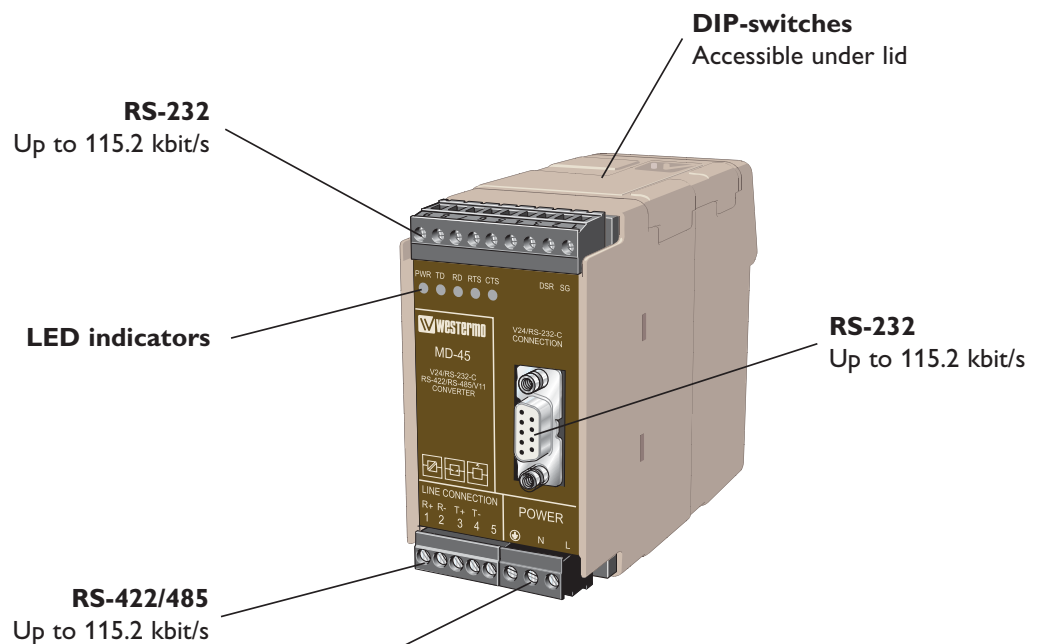
The MD-45 is intended for mounting on a 35 mm DIN-rail, where the modem is attached and locked in a single action. Greater transmission ranges or additional connected devices on the bus are possible with one or more repeaters.

Application



Also see application on page 43

Interface



Power

	MD-45 HV	MD-45 LV
Operating voltage	88 – 300 VDC 85.5 – 264 VAC	9.6 – 57.6 VDC 10 – 45 VAC
Rated current	25 mA @ 240 VAC 50 mA @ 95 VAC	300 mA @ 12 VDC
Rated frequency	48 – 62 Hz	48 – 62 Hz
Connection	Detachable 3-pos. screw terminal	Detachable 2-pos. screw terminal