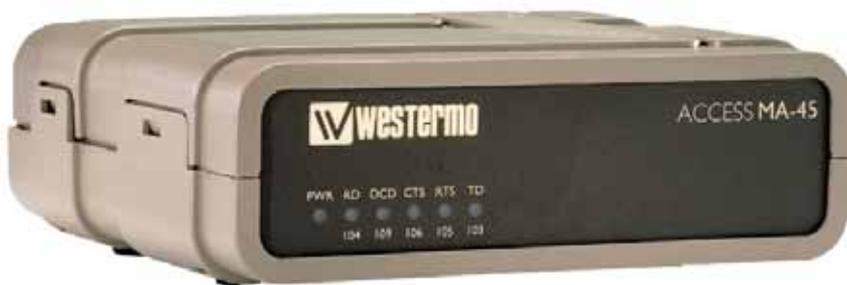


MA-45

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
- Communication direction controlled by the data flow or RTS
- Galvanic isolation
- Full termination and failsafe switch selectable
- Transient suppression
- Code independent/transparent
- Ensures communication over long distances and in environments with high levels of interference
- AC-/DC-supply
- Reliable performance and function

Field of application

MA-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 MA-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.

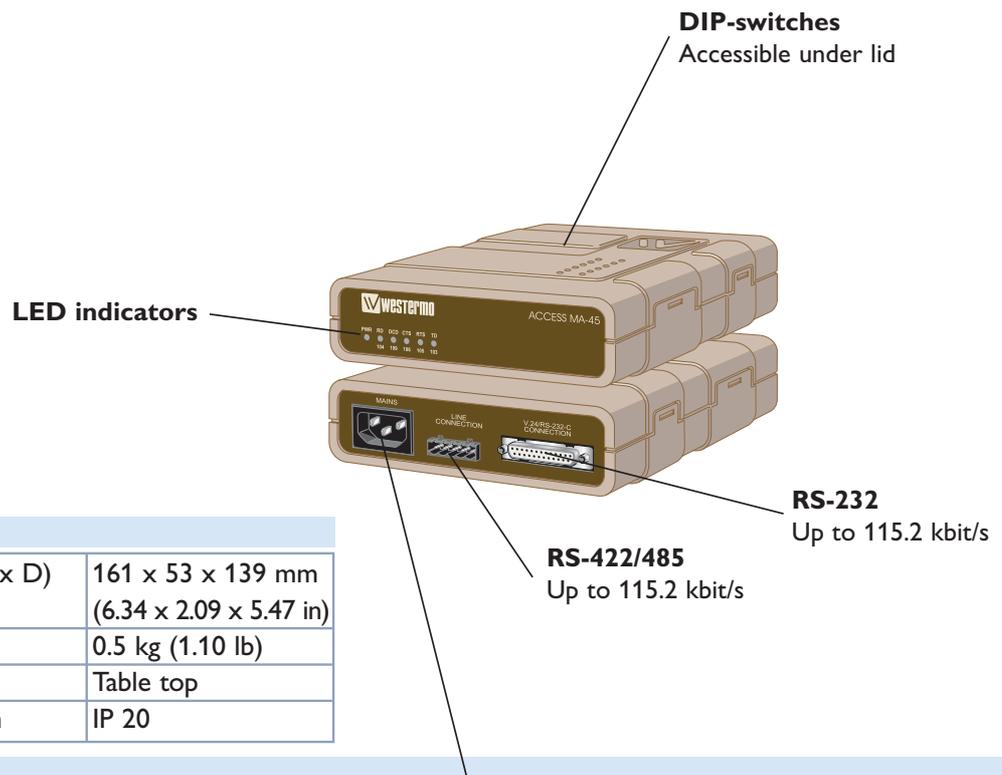
MA-45 is designed as a table top device. Greater transmission ranges or additional connected devices on the bus are possible with one or more repeaters.

Application



Also see application on page 43

Interface



Mechanical

Dimensions (W x H x D)	161 x 53 x 139 mm (6.34 x 2.09 x 5.47 in)
Weight	0.5 kg (1.10 lb)
Assembly	Table top
Degree of protection	IP 20

Power

	MA-45 AC	MA-45 DC
Operating voltage	207 – 264 / 103 – 132 VAC	12 -36 VDC
Rated current	22 mA @ 230 VAC	170 mA @ 12 VDC
Rated frequency	48 – 62 Hz	DC
Connection	Power	Detachable screw terminal