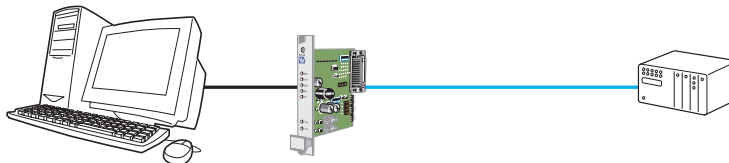# MA-49
RS-232 to RS-422/485 Converter

- Conversion between RS-232 and RS-422/485
- Communication direction controlled by RTS (2-wire)
- 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
- Reliable performance and function
- Handles high levels of interference and exposed locations

Field of application

MA-49 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-49 supports up to 32 connected devices on the bus. With 2-wire systems the communication direction is controlled by the RTS signal from the connected equipment.
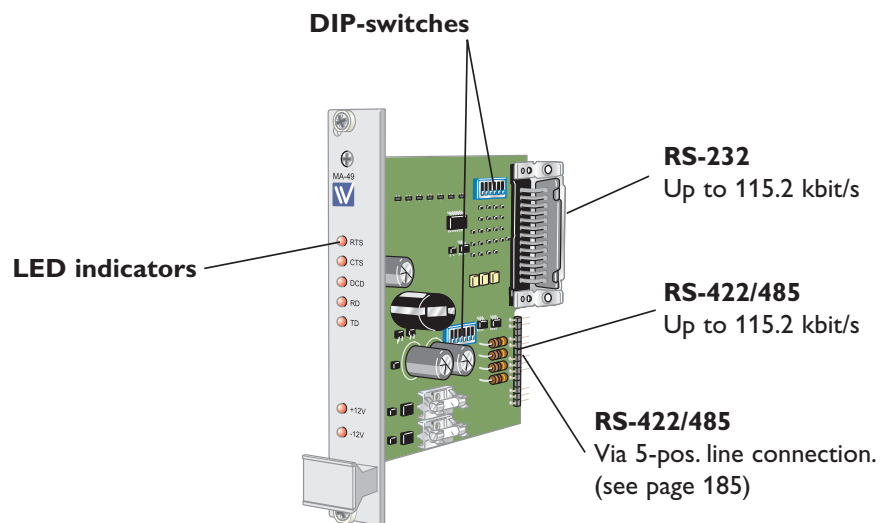
MA-49 is designed for installation in the Westermo rack (RV-01) which saves space when many modems are installed in the same location, for example, in a data processing centre. Greater transmission ranges or more connected devices on the bus are possible using one or more repeaters.

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Interface

DIP-switches

RS-232
Up to 115.2 kbit/s

LED indicators

RS-422/485
Up to 115.2 kbit/s

RS-422/485
Via 5-pos. line connection.
(see page 185)

Mechanical	
Dimensions (H x D)	100 x 100 mm (3.94 x 3.94 in)
Weight	0.1 kg (0.22 lb)
Assembly	Rack

NOTE! Only nine MA-49 devices can be powered in an RV-01 with one PS-02.

Power	
	RV-01 via PS-02
Rated current	60 mA
Connection	PS-02