

MA-21

20 mA Current loop converter



- ❑ Conversion between 20 mA current loop and RS-232
- ❑ Galvanic isolation
- ❑ Transient suppression
- ❑ Code independent/transparent
- ❑ Transmitter and receiver can be configured as active or passive
- ❑ Ensures communication over long distances and in environments with high levels of interference
- ❑ AC-/DC-supply
- ❑ Reliable performance and function

Field of application

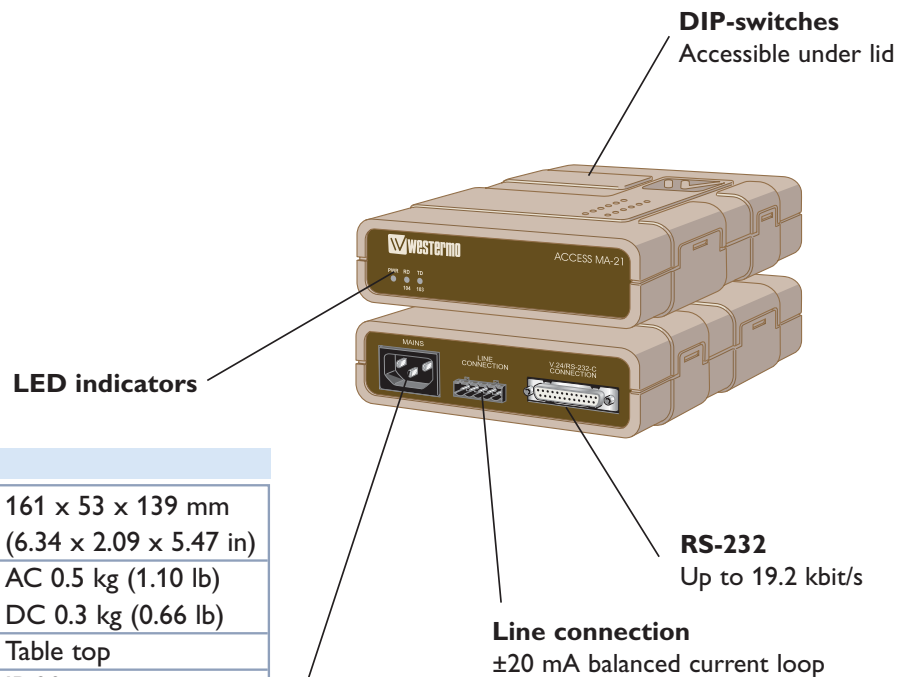
MA-21 is used in point-to-point applications where interface conversion from a 20 mA current loop to RS-232 is required to permit communication between different devices. In some cases the converters are used for connection in loops, these are then limited to a total of 6 connected devices. The converter can be set "active" to supply the line with current or "passive" depending on how the connected device is configured. Data rates up to 19.2 kbit/s and transmission ranges up to 6 km (3.73 mi) are possible depending on the data rate. MA-21 is designed as a table top device.

Application



Also see application on page 45

Interface



Mechanical

Dimensions (W x H x D)	161 x 53 x 139 mm (6.34 x 2.09 x 5.47 in)
Weight	AC 0.5 kg (1.10 lb) DC 0.3 kg (0.66 lb)
Assembly	Table top
Degree of protection	IP 20

Power

	MA-21 AC	MA-21 DC
Operating voltage	107 – 132 VAC 207 – 264 VAC	12 – 36 VDC
Rated current	22 mA @ 230 VAC	140 mA @ 12 VDC
Rated frequency	48 – 62 Hz	DC
Connection	Power	Detachable screw terminal