

## 5 Technical data

### 5.1 Technical data on the RS 232 extender

<b>Maximum data rate</b>	115.200 bit/s (57.600bit/s slow mode)
<b>Extended signals</b>	full RS232C: TxD, RxD, RTS, CTS, DTR, DSR, RI, DCD
<b>Direct voltage isolated</b>	up to 50V potential difference between transmitter and receiver (only signal lines, shield must be isolated in the cable where applicable)
<b>Option</b>	The <b>internal</b> jumper "A" reduces the data rate to 60% when used ("Slow Mode") which means that slightly longer cables lengths can be used. It is essential that the same configuration is set on <b>both</b> sides in this case!
<b>Supply voltage</b>	5VDC, external power supply unit, minimum of 300 mA, regulated
<b>Maximum power intake</b>	less than 100 mA (per device), conforms to approx. 0.5W
<b>Housing</b>	W=55 mm, H=24 mm, L=104 mm
<b>Maximum extension path</b>	depending on cable quality, approx. 200m or longer
<b>Operating conditions</b>	Operation: 5-45°C, Rel. air humidity: <80%; non-condensing; Storage: 10-55°C, Air humidity: <85%

## 5.2 Maximum cable lengths

Cable type	Standard mode (max. 115.200bit/s)	Slow mode (max. 57.600bit/s)
AWG26, S-STP, Montrose Emaxx CBL9646	220M	300M
AWG26, S-STP, ekumaxx 600 flex (violett)	230M	310M
AWG24, UTP, Belden Datatwist	310M	420M
AWG24, FTP, BICC Brand-Rexx GigaPlus	340M	440M
AWG24, UTP, Lucent/Avaya Systimax	310M	420M
AWG23, UTP-HF, BICC Millenium C6U	320M	440M
AWG23, STP, Daetwyler Uninet 7002	340M	440M
AWG22, STP, Daetwyler Uninet 7702	340M	440M

## 5.3 General maximum cable length recommendations

Cable type (simplified)	Standard mode (max. 115.200bit/s)	Slow mode (max. 57.600bit/s)
AWG26	200M	250M
AWG24	260M	340M
AWG23	280M	360M
AWG22	280M	360M

### Notes:

- Cables with good crosstalk characteristics (less crosstalk) are preferable, as are cables with shielding.
- It is essential that cables are a minimum of category 5 (cat.5).
- The best results are achieved using cable types with AWG24, AWG23 or AWG22 line strength.