

Technical Data - 1 Channel Repeater (101-201101)

Technical Data - 1 Channel Repeater (101-201101)	
Backplane	
PROFIBUS networks Modules Power supply Current consumption Compatible backplane units	4 (set by dipswitches or web server) 10 (positioned in the first 10 slots) Provided through the backplane ± 160 mA (270 mA max) 101-200011, 101-200012, 101-200023, 101-200024, 101-200027
Protocol specifications	
Supported Protocols Address Transmission speed Transmission speed detection Data delay time (normal mode) Data delay time (redundant mode) Delay time jitter	DP-V0, DP- V1, DP-V2, FDL, MPI, FMS, PROFIsafe, PROFIdrive and any other FDL based protocol NO bus address required 9.6 kbps .. 12 Mbps (including 45.45 kbps) Auto detect (< 10 s detection and 50 s lost time) 1.6 TBit at 9.6 kbps .. 93.75 kbps 1.7 TBit at 187.5 kbps .. 500 kbps 1.8 TBit at 1.5 Mbps 2.0 TBit at 3 Mbps 2.75 TBit at 6 Mbps 3.75 TBit at 12 Mbps 11.6 TBit at 9.6 kbps .. 93.75 kbps 11.7 TBit at 187.5 kbps .. 500 kbps 11.8 TBit at 1.5 Mbps 12.0 TBit at 3 Mbps 12.75 TBit at 6 Mbps 13.75 TBit at 12 Mbps Max. ¼ TBit
PROFIBUS cable specifications	
Cable lengths Wire diameter (for the screw terminals) Wire type	1200 m at 9.6 kbps .. 93.75 kbps 1000 m at 187.5 kbps 400 m at 500 kbps 200 m at 1.5 Mbps 100 m at 3 Mbps .. 12 Mbps < 2.5 mm ² Stranded or solid core

Technical Data - 1 Channel Repeater (101-201101)	
Number of devices	Maximum 31 devices per channel (busloads)
Termination	Integrated (switchable) Powered according to PB RS 485 (390/220/390 Ohms)
Cascading depth	No limit, only busparameter limitation of the master
Redundancy	Yes, maximum 10 cables activated by switch
Dipswitches	
<p><u>NW0</u> <u>NW1</u> LEFT LEFT RIGHT LEFT LEFT RIGHT RIGHT RIGHT</p> <p><u>RED</u> LEFT RIGHT</p> <p><u>H/S</u> LEFT RIGHT</p>	<p><u>PROFIBUS Network</u> 1 2 3 4</p> <p><u>Redundancy</u> OFF ON</p> <p><u>Settings</u> Hardware Software</p>
PROFIBUS connectors	
<p><u>CH1</u> A, B SH I</p>	<p><u>Screw terminals + DB9 connector (1-on-1)</u> Green wire, Red wire Direct grounding Indirect grounding</p>
Others	
<p>Head Station firmware Operating temperature Weight MTBF</p>	<p>ALL 0 .. 60 °C 110 grams To be defined</p>
<p>PROCEN TEC Klopperman 16 2292 JD WATERINGEN (NL)</p>	<p>Tel.: +31-174-671800 Fax: +31-174-671801 Email: info@procentec.com</p>