

Technical Data - 2 Channel Repeater (101-201102)

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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 only) Provided through the backplane ± 300 mA 101-200011, 101-200023, 101-200012
Protocol specifications	
Supported Protocols	DP-V0, DP- V1, DP-V2, FDL, MPI, FMS, PROFIsafe, PROFIdrive and any other FDL based protocol
Address	NO bus address required
Transmission speed Transmission speed detection	9.6 kbps .. 12 Mbps (including 45.45 kbps) Auto detect (< 10 s detection and 50 s lost time)
Data delay time (normal mode)	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
Data delay time (redundant mode)	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
Delay time jitter	Max. ¼ TBit
PROFIBUS cable specifications	
Cable lengths	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
Wire diameter (for the screw terminals) Wire type	< 1.5 mm ² Stranded or solid core

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Number of devices	Maximum 31 devices per channel (busload)
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>CH2</u> A, B SH I</p> <p><u>CH1</u> A, B SH I</p>	<p><u>Screw terminals</u> Green wire, Red wire Direct grounding Indirect grounding</p> <p><u>Screw terminals + DB9 connector (1-on-1)</u> Green wire, Red wire Direct grounding Indirect grounding</p>
Others	
Head Station firmware Operating temperature Weight MTBF	ALL 0 .. 60 °C ?? To be defined
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