

Technical Data - SCOPE Repeater (101-201210)

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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) Provided through the backplane ± 400 mA (555 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) 2.0 TBit at 9.6 kbps .. 3 Mbps 2.75 TBit at 6 Mbps 3.75 TBit at 12 Mbps 12.0 TBit at 9.6 kbps .. 3 Mbps 12.75 TBit at 6 Mbps 13.75 TBit at 12 Mbps Max. ¼ TBit
Oscilloscope specifications	
Frequency Resolution Differential range	192 MS/s 50 mV -6.436 .. 6.436 V
PROFIBUS cable specifications	
Cable lengths Wire diameter (for the screw terminals) Wire type Number of devices	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 < 1.5 mm ² Stranded or solid core Maximum 31 devices per channel (busloads)

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Termination	Integrated (switchable - 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>NW0 NW1 LEFT LEFT RIGHT LEFT LEFT RIGHT RIGHT RIGHT</p> <p>RED LEFT / RIGHT</p> <p>H/S LEFT / RIGHT</p>	<p>PROFIBUS Network</p> <p>1 2 3 4</p> <p>Redundancy OFF / ON</p> <p>Settings Hardware / Software</p>
PROFIBUS connectors	
<p>CH1 A, B SH I</p>	<p>Screw terminals + DB9 connector (1-on-1) Green wire, Red wire Direct grounding Indirect grounding</p>
LEDs	
<p>RDY RX SW HWE ER MIN TERM</p>	<p>Module is ready for operation (ON) Receiving telegrams (blinking) Termination ON Internal repeater error (contact PROCENTEC) No or bad telegrams detected Signal amplitude of the telegrams too low (< 2.5 V) Idle voltage too low (<0.95 V .. >1.26 V)</p> <p><i>Alarm values can be changed through the web server.</i></p>
Others	
<p>Head Station firmware Operating temperature Weight MTBF</p>	<p>At least version 1.260 0 .. 60 °C 120 g To be defined</p>
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