

## Technical Data - SCOPE Repeater (101-201210)

Technical Data - SCOPE Repeater (101-201210)	
<b>Backplane</b>	
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 ± 500 mA 101-200011, 101-200023, 101-200012
<b>Protocol specifications</b>	
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
<b>Oscilloscope specifications</b>	
Frequency Resolution Differential range	192 MS/s 50 mV -6.436 .. 6.436 V
<b>PROFIBUS cable specifications</b>	
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 <sup>2</sup> Stranded or solid core Maximum 31 devices per channel (busloads)

Technical Data - SCOPE Repeater (101-201210)	
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
<b>Dipswitches</b>	
<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>
<b>PROFIBUS connectors</b>	
<p>CH1 A, B SH I</p>	<p>Screw terminals + DB9 connector (1-on-1) Green wire, Red wire Direct grounding Indirect grounding</p>
<b>LEDs</b>	
<p>RX SW HWE ER MIN TERM</p>	<p>Receiving telegrams (blinking) Termination ON Internal repeater error (contact PROCENTEC) No or bad telegrams detected Signal amplitude of the telegrams too low (&lt; 2.5 V) Idle voltage too low ( &lt;0.95 V .. &gt;1.26 V )</p> <p><i>The alarm values be changed through the web server.</i></p>
<b>Others</b>	
<p>Head Station firmware Operating temperature Weight MTBF</p>	<p>At least version 1.260 0 .. 60 °C 120 g To be defined</p>
<p><b>PROCENTEC</b> Turfschipper 41 2292 JC WATERINGEN (NL)</p>	<p><b>Tel.: +31-174-671800</b> <b>Fax: +31-174-671801</b> <b>Email: info@procentec.com</b></p>