

Technical Data – RS 485-IS Barrier (101-201410)

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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 ± 450 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	9.6 kbps .. 1.5 Mbps (including 45.45 kbps)
Transmission speed detection	Auto detect (< 10 s detection and 50 s lost time)
Data delay time (normal mode)	2.0 TBit
Data delay time (redundant mode)	12.0 TBit
Delay time jitter	Max. ¼ TBit
Oscilloscope specifications	
Frequency Resolution Differential range	192 MS/s 27 mV -3.49..+3.49 V
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
Number of devices	Maximum 31 devices per channel (busloads)
Required termination	DB9-IS connector with internal 200Ω only
Redundancy	Yes, maximum 10 cables activated by switch

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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>
ATEX (electrical)	
<p>Uo Io Ui Li Ci Output characteristic</p>	<p>4.2 V 149 mA ≥ 4.2 ≈ 0 μH V Negligibly small Linear</p>
ATEX (compliance):	
<p>II (2) G [Ex ia Gb] IIC EN-IEC60079-0: 2009 / EN-IEC60079-11: 2012 / EN-IEC60079-25: 2010 PROFIBUS International IS Installation Guidelines Certification number: DEKRA 12ATEX0192</p>	
LEDs	
<p>RDY RX HWE ER MIN TERM</p>	<p>Module is ready for operation (ON) Receiving telegrams (blinking) Internal repeater error (contact PROCENTEC) No or bad telegrams detected Signal amplitude of the telegrams too low (< 1.64 V) Idle voltage too low (<0.35 V .. >0.75 V) <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 1.272 0 .. 60 °C 150 g To be defined</p>
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