

Electrical networks

**RS 485 repeater for PROFIBUS**

- Automatic transfer rate search
- Data transfer rate of 45.45 kbit/s possible.
- 24 V DC voltage display
- Display bus activity segment 1 and 2
- Isolation of segment 1 and 2 possible by switch
- Isolation of the right segment part when terminating resistor is inserted
- Decoupling of segment 1 and segment 2 in the event of static interference.

**Designed for Industry**

- To increase the number of stations and the expansion
- Galvanic isolation of segments
- Startup aids
  - Switch for disconnecting segments
  - Display of bus activity
  - Isolation of a segment with incorrectly inserted terminating resistor.

The RS485 IP 20 repeater connects two PROFIBUS or MPI bus segments using the RS 485 system with up to 32 stations. Transmission rates of 9.6 kbit/s to 12 Mbit/s are then possible.

- Housing with IP 20 protection
- 2 terminal blocks for connecting the segment
- Terminal block for supply voltage (24 V DC external).
- PG/OP interface.
  
- Increasing the number of stations (max. 127) and the coverage
- regenerating the signals in amplitude and time
- Electrical isolation of the connected bus systems

<b>Data transfer rate</b>	<b>Max. segment length</b>
9.6 kbit/s	1000 m
19.2 kbit/s	1000 m
45.45 kbit/s	1000 m
93.75 kbit/s	1000 m
187.5 kbit/s	1000 m
500 kbit/s	400 m
1500 kbit/s	200 m
3000 kbit/s	100 m
6000 kbit/s	100 m
12000 kbit/s	100 m

<b>RS 485 repeater for PROFIBUS</b>	
Data transfer rate	9.6 kbit/s to 12 Mbit/s
Interfaces	
<ul style="list-style-type: none"> <li>• Connection for bus segment</li> </ul>	2 terminal blocks
<ul style="list-style-type: none"> <li>• Connection for power</li> </ul>	terminal block

supply	
Supply voltage	
• Rated voltage	24 V DC (20.4 V to 28.8 V)
Current consumption at Rated voltage	
• without load on PG/OP socket	200 mA
• with load on PG/OP socket (5 V/90 mA)	230 mA
• with load on PG/OP socket (24 V/90 mA)	300 mA
Perm. environmental conditions	
• Operating temperature	0 °C to +60 °C
• Transport/storage temperature	-40 °C to +70 °C
• Relative humidity	max. 95% at +25 °C
Design	
• Dimensions (W x H x D) in mm	45 x 128 x 67
• Weight	approx. 350 g
Degree of protection	IP 20