

PROCENTEC



ComBricks

Alternative Cable Repeater Module

The SCOPE alternative cable repeater (SALT) allows PROFIBUS communication over non-standard cable. The user can easily verify bus signals with the built in oscilloscope, which is accessible through the web server. This product is an excellent tool to modulate PROFIBUS signals on non-standard infrastructures and is the only available PROFIBUS repeater capable of fixing EMC problems. This allows technicians to efficiently maintain the PROFIBUS installation and optimise the entire life cycle of the installation.

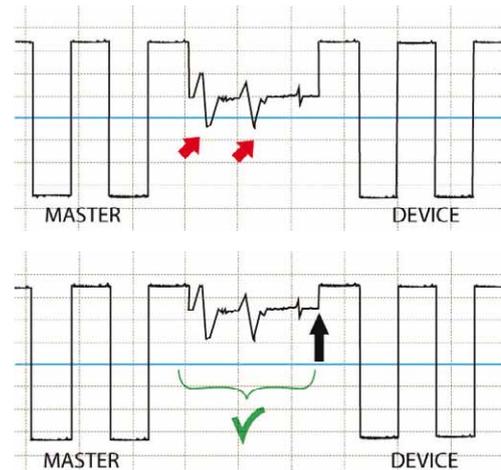
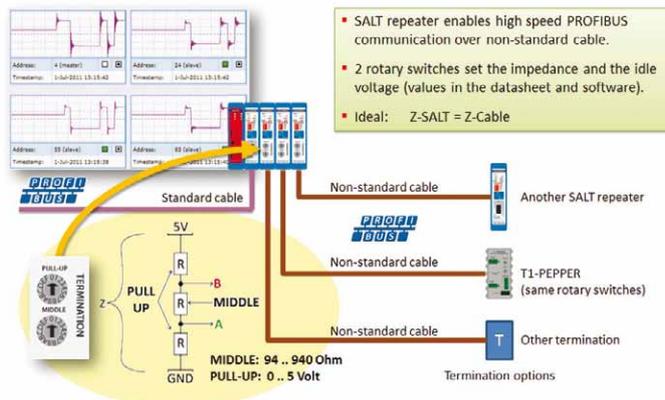
This product can also be used to increase the idle line voltage on segments where interference causes communication disturbances. The large connectors allow specialty cable and more cable stress. The repeater channel and the integrated oscilloscope are directly connected with the ProfiTrace OE core in the Head Station. The data traffic is constantly monitored for glitches which are digitally filtered out.

Two Rotary switches manipulate the values of the termination network. The combination of both set the impedance and the level of the idle voltage. At the other end of the cable, another SALT repeater or the T1-PEPPER has to be placed.





Applications



Product features

Electrical and Mechanical

- 1 Bus channel
- 31 devices/bus-loads per channel
- No limit in cascading
- Removable screw terminals

Protocol

- Transparent for all PROFIBUS protocols
- 9.6 kbps - 12 Mbps (auto detection)
- 2 bits delay time (12 bits in redundant mode)
- No address required
- Bus redundancy (selectable)

Termination

- Termination range (MIDDLE): 94 .. 940 Ohm
- Idle voltage range (PULL-UP): 0 .. 5 V

Oscilloscope

- Frequency: 192 MS/s
- Resolution: 50 mV
- Differential range: -6.436..6.436 V

Web server

- Oscilloscope images of connected devices (diff.)
- Last, Min, Max bus signals
- Bar graph of connected devices
- Email on telegram errors and low bus signals

Backplane

- 4 Networks selectable with switches
- 10 Modules (positioned in the first 10 slots)
- 400 mA current consumption

