

PROFINET Switch PROmesh P10

Function

The Indu-Sol **PROFINET Switch PROmesh P10** is the first full PROFINET switch which offers permanent line monitoring of the connected cables. This offers completely new possibilities for operation and maintenance in highly dynamic processes. Thanks to Conformance Class B certification the switch can be integrated into the automation system with an engineering tool (Step7, TIA Portal), enabling comprehensive network diagnostics.

Due to optimized shield contacts in the RJ45 sockets and leakage current monitoring, the PROmesh series not only meets the requirements of PROFINET functionality, but also fulfills the highest demands on EMC resistance in industrial environments. It can therefore also be used in areas with high electromagnetic pollution.

The extensive diagnostic options are complemented by an evaluation of the port statistics on the web interface. This provides crucial network information such as network load, discards, errors and the correct port allocation.

In addition, the PROmesh P10 opens up a future-proof investment opportunity thanks to the latest technologies such as TSN and PROFINET 2.4.

Technical data

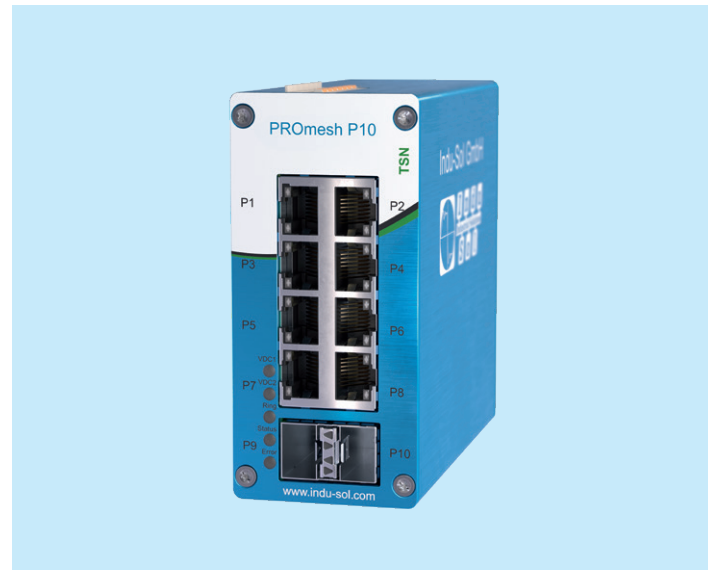
- Power supply: 12V-36V DC redundant power supply
- Max. power consumption: DC 36V / 0,8A
- Max. power loss: 8 W
- Dimensions (H x W x D): 105 x 49 x 112 mm
- Weight: 850 g
- Casing: aluminium, anodised
- Storage temperature: -40°C to +85°C
- Operating temperature: -40°C to +70°C
- Protection class: IP20
- Mounting: 35 mm DIN top-hat rail

Scope of functions

- Network ports: 8 x 10/100/1000 mbps RJ45 ports
2 x 100/1000/2500 mbps SFP ports
- Technology: Cut-Through
- Leakage current monitoring: Sampling rate 25KHz, Measuring range 0 - 10A
- Online cable diagnosis
- Integrated cable tester
- Port statistics: Errors, discards, netoad
- Display of netload: 1 millisecond
- Supported protocols/services: HTTP, SNMPv1, SNMPv2, DHCP Client, DNS, TFTP, SMTP Client, Sntp Client, LLDP, IGMP, MRP Master/Client, RSTP, Syslog
- Port mirroring: TX Pakete or TX and RX Pakete
- Alert: PN-RTA, SNMP, Email, Relay
- Bandwidth control

Ordering details

Ordering details	Art. No.
PROFINET Switch PROmesh P10	114110200
SFP-Transceiver module 100/1000mbps 100m RJ45	114120003
SFP-Transceiver module 100 mbps 2 km MM	114120006
SFP-Transceiver module 100 mbps 20km SM	114120007
SFP-Transceiver module 1 gbps 20 km SM	114120004
SFP-Transceiver module 1 gbps 0,55 km MM	114120005



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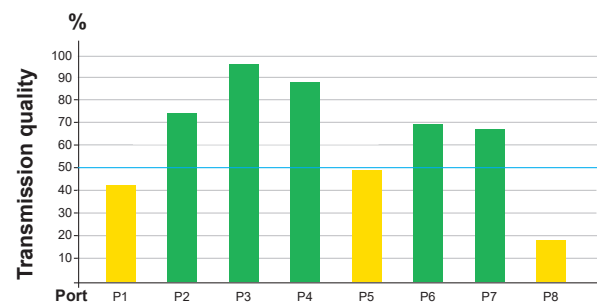
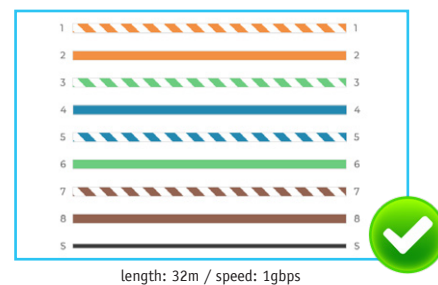
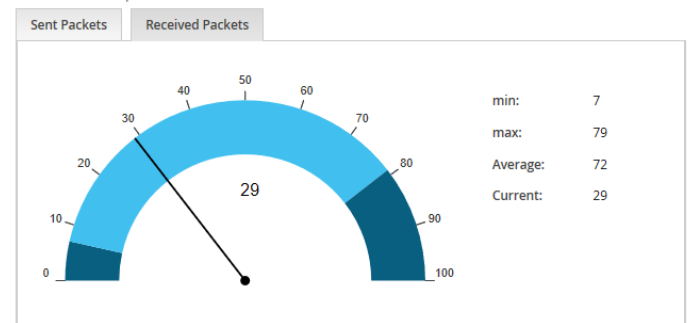


Diagram for online line diagnosis



Integrated cable tester

Workload for port 1



Display of netload with millisecond accuracy