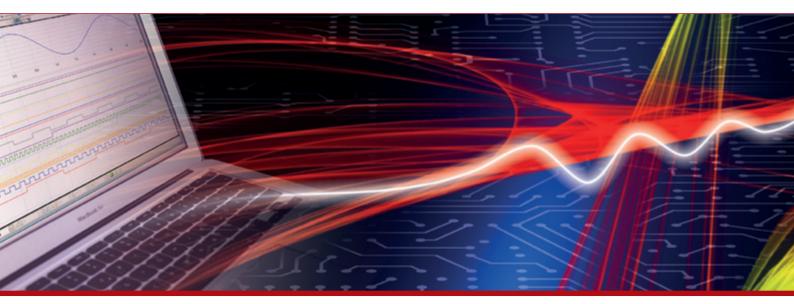


Product Datasheet - Technical Specifications



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Your contact

Technical and commercial sales, price information, quotations, demo/test equipment, consulting:

+49 - (0)81 41 - 52 71-0 Tel.:

+49 - (0)81 41 - 52 71-129 FAX:

E-Mail: sales@meilhaus.com

Indu Industrial Solutions Solutions

Diagnostic Switch PROmesh P10



Art. No. 114110200

HIGHLIGHTS

Integrated diagnosis:

- Online line monitoring
- Network monitoring
 - Netload
 - Discards
 - Errors
- Leakage current monitoring

High Performance:

- Transfer rates up to 2.5 gbps
- Quality of Service
- 8 priority queues

Your advantages

- Continuous diagnosis of the connected wires during operation.
- The PROmesh P10 is a full-managed Industrial Ethernet/PROFINET switch for industrial automation plants.
- You can configure it easily and conveniently via its integrated web interface.
- The compact design, flexible mounting on the top-hat rail as well as its optimized thermal properties save space in the control cabinet.
- Extensive diagnostic functions:
 Keep yourself informed at all times about your network status, cable fault reserve and EMC.



Diagnostic Switch PROmesh P10

Technical details

Network Interfaces	
RJ45 Ports	
■ Interfaces	8
■ Transmission rates	10 mbps 100 mbps 1 gbps
■ Status LED	Link + data exchange Portspeed
SFP Slots	
■ Interfaces	2
■ Transmission rates	100 mbps 1 gbps 2,5 gbps
■ Status LED	Link + data exchange Portspeed
Supply voltage, current consumption, power loss, alarm conta	act
Interfaces	
■ Power supply	2 x 0,2-2,5 mm ²
Redundant power supply	2 x 0,2-2,5 mm ²
■ Functional earth (FE)	1 x 0,2-2,5 mm ²
■ Alarm contact	2 x 0,2-2,5 mm ²
Operating parameters	
Supply voltage (nominal value)	24VDC
Power supply (min.)	12 VDC
Power supply (max.)	36 VDC
Power consumption (max.)	0,8 A
■ Power loss (max.)	8 W
■ Fuse protection (power supply input)	3,5 A / 125 VDC
■ Fuse (input of the alarm contact)	1,0 A /24VDC 0,5 A /125 VAC
Further device interfaces	
■ Status LED	VDC1 VDC2 Ring Status Error
■ Data memory	SD card max. 32 GByte
■ Reset	Button
Functions	
Basic parameters	
 Switching technology 	Cut-Through
MAC address table	16 K
■ Packet buffer	2 Mbit
■ Backplane capacity	51,2 gbps
■ Throughput	19,3 mpps



Diagnostic Switch PROmesh P10

Technical details

Functions	
Quality of Service (QoS)	
Queues per port	8
Prioritization functions	Port Class of Service (CoS) Type of Service (ToS)
Prioritization methods	Strict prioritization Weighted prioritization
■ Bandwidth control	Incoming and outgoing
VLAN	
Protocol function	Port based
■ Amount	4096
Protocols/services	
■ Web	HTTP
■ Network	SNMPv1 SNMPv2 DHCP Client
Data transfer	TFTP
■ E-Mail	SMTP Client
Time synchronization	SNTP Client
Neighbourhood	LLDP
Multicast groups	IGMP Snopping
Redundancy	MRP Master MRP Client RSTP
■ Eventlog	Syslog
PROFINET	
Standard	PROFINET 2.4
Device Class	Device
■ Conformance Class	В
■ Netload Class	III
■ Realtime Class	1
Diagnosis	
Functions	
■ Wire diagnostic	Online quality analysis Online wire test Offline wire test
Port statistics	Errors Discards Netload/ms + Netload/s Neighbourhood
Neighbourhood	Sampling rate 25 kHz Bandwidth 25.6 kHz Measuring range 0 - 10 A Resolution 1 mA
■ Power supply	Sampling rate 1 Hz Measuring range 12 - 36 VDC Resolution 0.1 V
■ Temperature	Measuring range -40 - 75°C Resolution 1°C
Port Mirroring	Ingress or ingress and egress Multiple source ports possible



Diagnostic Switch PROmesh P10

Technical details

Diagnosis	
Alert	
■ Trigger	Port (Up, Down, Status change) Wire quality Netload Leakage current Neighbourhood Power supply Temperature MRP
■ Receiver	PROFINET Email SNMP Trap Alarm contact
Environmental conditions	
Operating temperature	-40°C 60°C
Storage temperature	-40°C 85°C
■ Air humidity, rel.	5-95% non-condensing
Protection Class	IP20
MTBF	59 years
Design, Dimensions, Weights	
Building type	compact
Material (housing)	Aluminium, anodised
Mounting	35 mm DIN top-hat rail
■ Width	49 mm
Height	105 mm
Depth	112 mm
Installation distance (vertical)	50 mm
Installation distance (horizontal)	50 mm
Weight (net)	0,85 kg
Standards, directives, approvals	
EMC	
Guideline	2014/30/EU
Emitted interference	EN 55032
Susceptibility	EN 61000-6-2
Mechanical stability	
Vibration	IEC 60068-2-6
Shock	IEC 60068-2-27
■ Free fall	IEC 60068-2-32
Approval	
Europe	CE
Environment	
■ RoHS	2011/65/EU
■ REACH	1907/2006/EG