

NetXpert 1400 IE

Industrial Ethernet Qualifier with Network Diagnostic Tool

NetXpert 1400 IE provides a complete solution for cable testing, performance analysis and troubleshooting of Industrial Ethernet networks, enabling rapid, simple verification and documentation of the capability of cabling links with RJ45 and M12 connectors.



Reduction of Machine Downtime

- Quick and easy detection of cable faults
- Defined and documented network status before machine startup
- Identification of logical network problems through test of active network components

Qualification of Passive Network Components

- Support of 4 wire industrial network cables
- Full color wiremap
- Cable length and distance to cable faults including pair length
- Data transmission test with 10 Mbit/s, 100 Mbit/s and 1 Gbit/s

Test of Active Network Components

- Link test
- Ping and Traceroute
- Switch port identification
- LLDP and VLAN discovery

Documentation and Reporting of Measurements

- Measurement data stored in internal memory
- SD card for additional memory
- USB connection for alternative transfer of measurement data to PC

Technical Data

Measurement Technology	Time Domain Reflectometry (TDR)	
Cable Measurements	Cable testing and ID	Up to 305 m
	Split pair detection	1 m ... 305 m
	Length measurement	Up to 457 m, $\pm(5\% + 0.3 \text{ m})$
	Distance to fault	Up to 200 m $\pm(5\% + 1 \text{ m})$
Active Ethernet	Indication of advertised speeds of 10BASE-T / 100BASE-T / 1000BASE-T half or full duplex Link to network possible at 10BASE-T / 100BASE-T	
Maximum Voltage	Parameters refer to maximum voltage that can be applied to any 2 connector pins without causing damage to the tester: • RJ jack: 66 VDC or 55 VAC • F connector: 50 VDC or VAC	
Storage of Test Results	Up to 250 cable or network tests with user defined names	
Tone Generation	Tone frequencies: 730 Hz and 1440 Hz	
Battery	Rechargeable Li-ion battery, 7.2 VDC, 5,500 mAh (Typical) battery life: approximately 32 h, 16 h with gigabit link, 55 h stand-by	
Temperature	Operating temperature: 0 °C ... 50 °C Storage temperature: -30 °C ... 60 °C	
Humidity	10 % ... 90 %, non-condensing	
Display	3,5" color touch screen display	
Size	60 mm x 100 mm x 230 mm	
Weight	508 g (with batteries)	

Scope of Delivery

Hardware	NetXpert 1400 IE Main Unit, NetXpert 1400 IE Active Remote Unit, 4 GB SD card, RJ45 and M12 D-coded connection cables
Documentation	

Order Numbers

DDA-JJ-004200	NetXpert 1400 IE
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Additional Products and Services

TRA-PN-Tech	Training "PROFINET - Technology"
TRA-PN-Cert	Training "PROFINET - Certified Engineer"



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