

# 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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