

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

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|-------------------------|--|---|
| 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: <ul style="list-style-type: none">• 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

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|---------------|---|
| 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

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

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



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