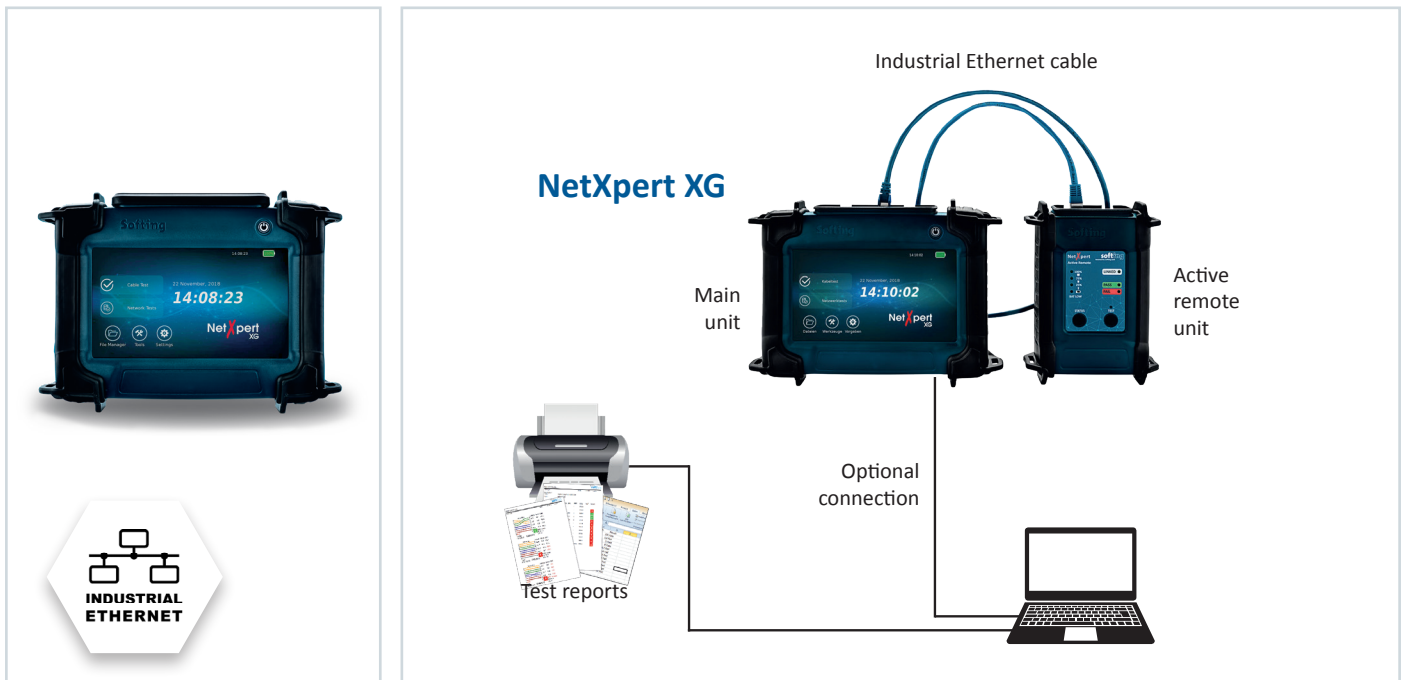# NetXpert XG

Industrial Ethernet Qualifier with Network Diagnostic Tool

- **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**

INDUSTRIAL ETHERNET

Industrial Ethernet cable

NetXpert XG

Main unit

Active remote unit

Optional connection

Test reports

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 100 Mbit/s up to 10 Gbit/s

Test of Active Network Components

- Link test

- Ping and Traceroute

- Switch port identification

- LLDP and VLAN discovery

Documentation and Reporting of Measurements

- 16GB of internal memory sufficient to hold tens of thousands of measurements

- USB connection for alternative transfer of measurement data to PC

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NetXpert XG

Technical Data

Ethernet Speed Certification	100Mbit/s - 10Gbit/s via Copper Twisted Pair cabling 1 Gbit/s, 10Gbit/s via fiber SFP-ports
Length Measurement Technology	Time-Domain Reflectometry (TDR) and capacitance
Cable Measurements	Cable Testing and ID: up to 1,000ft (305m) Split Pair Detection: 3ft (1m) to 1,000ft (305m) Length Measurement: 0 to 1,500ft (457m), ± (5%+1ft (30cm)) Distance to fault: 0 to 656ft (200m) ± (5% + 3ft (1m)) Supports 8 wiremap remotes (RJ 45) and 24 RJ-45 ID only remotes
Power over Ethernet (PoE)	Test supports IEEE 802.3af PoE (Type 1, max 15.4W), IEEE 802.3at PoE+ (Type 2, 30W) and 802.3bt PoE++ (Type 3, 60W)
Active Ethernet	Network and test support by interface: Copper RJ-45 interface – 100/1,000/2,500/5,000/10,000Mb/sec link speeds Fiber SFP+ #1 interface supports 10Gb/sec link speed Fiber SFP #2 interface supports 1Gb/sec link speed WiFi 802.11 a/b/g/n/ac 2.4Ghz WiFi and Bluetooth
Maximum Voltages	Maximum voltage that can be applied to any 2 connector pins without causing damage to the tester: RJ-45: 60VDC or 50VAC
Save Test Results	16GB memory allows storing more than ten thousand cable or network tests
Tone Generation	Tone Frequencies: 730Hz and 1440Hz
Languages	English, German, French, Spanish, Italian
Battery	Li-Ion, 7.2VDC, 3.1A-hr 5 hours typical
Temperature	Operating: 14 to 140°F (-10 to 60°C); Storage: -22 to 158°F (-30 to 70°)
Humidity	10 to 90% non-condensing
Enclosure	Injection molded plastic
Display	7" Color TFT-LCD capacitive touch display, 1024x600 resolution (WSVGA)
Size	9.6x6.9x2.8 inch (245x177x73 mm) (Main Unit); 5.1x6.9x2.1 inch (130x177x55 mm) (Active Remote)
Weight with Battery	2,65lbs (1,2kg) (Main Unit); 1,33lbs (0,6kg) (Active Remote)

Scope of Delivery

Hardware	NetXpert Main Unit, Active Remote, 2 x Power supply, 2 x Test cable, Hard case, Micro-USB adapter

Order Numbers

226554	NetXpert XG up to 1G
226553	NetXpert XG up to 2,5 and 5GBits/s
226552	NetXpert XG up to 10GBits/s
226555	Upgrade licence for NetXpert XG
400926	RJ45 to M12 D-coded cable, 1m

Additional Products and Services

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

Your local Softing contact:

http://industrial.softing.com

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