

# Active Ethernet LAN Testing

The **KE7200 Ethernet Performance Tester** is the ideal tool for commissioning tests, troubleshooting and documentation in networks with an outstanding price/performance ratio



## KE7200



### At a glance

- Wire-mapping and precise fault location
- Integrated cable database starting from 1 pair telephone
- Recognition of branches (Bridge Taps) - optional
- Measures cable lengths up to 150 m (TDR)
- Power over Ethernet test according to IEEE802.3af/at/bt standard
- Tests LAN using static IP or DHCP up to 1 Gbit
- List of active LAN devices and continuous ping test
- Master/Remote overvoltage protected up to 100 V AC
- Stores data and print out of test reports



Versatile functions, the large graphical display and intuitive operating enable the user to work efficiently. Long battery life and a rugged housing are the perfect conditions for daily use.

The **KE7200** tests the wires and wire pairs of the cable for continuity, open, short, interchange and overdraft (Split Pair) and simultaneously determines cable length and distance to the fault in short circuit and interruption testing.

With the internal user-configurable cable database, unknown cable and wiring schemes belong to the past. Up to 32 individual remote units can be managed from the **KE7200** simultaneously.

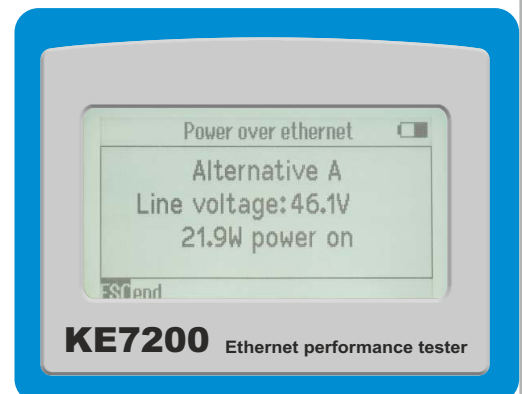
The device checks connections on the availability of Power over Ethernet up to Four-Pair-Power-over-Ethernet 90 watts (PoE, PoE+ and PoE++) and determines the available power.

PoE standard		power for each port	usable power
PoE	IEEE 802.3af	15.4 W	12.95 W
PoE+	IEEE 802.3at	25.4 W	21.90 W
PoE++ / 4PPoE	IEEE 802.3bt	38.7; 52.7; 70 and 90 W	34.8; 47.4; 63 and 81 W

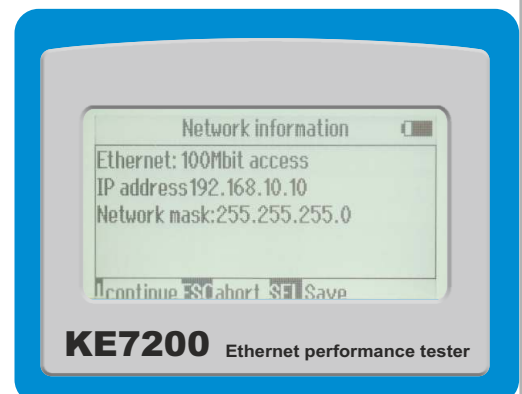
Active network tests such as the speed detection up to 1 GBit/s of the network connection, listing the existing network subscribers with Name, IP and MAC address as well as the configurable ping stress test with detailed statistics, information on the network and possibly faulty components.

Identifying data ports with the port finder function activates the link-LED on the switch and the integrated trace tone signal allows using the optional PROBE310 for cable tracing.

The supplied Ethernet Manager software allows to create measurement reports and to maintain cable tests and network information.



PoE / PoE+ / PoE++ test with determination / display



Detecting the network subscriber

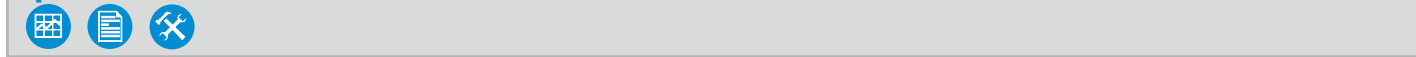
# Ethernet-Manager

Cable measurements and information about the Ethernet performance can be stored and transferred to a PC or laptop. The included Windows PC-Software **Ethernet Manager** gives clear indication about cable length, cable faults and allows the creation of subscribers measurement logs.

The screenshot shows the KE7200 Manager software interface. The main window displays a table of test results with columns for No., Name of measurement, Wiring, Error 1, Error 2, EV Room, Date, and Save name. Below the table, there is a detailed view for a specific test (Name: KURTH 2) showing cable type (568A STP), length (30.7 m), and a graphical representation of the remote connector wiring. The interface also includes fields for customer, address, comment, and operator, along with a 'Wait for connection...' button.

The screenshot shows a 'Test report' document. It includes a header with the KURTH ELECTRONIC logo and contact information. The report lists several test entries, each with a unique ID, date, operator, and comment. For each test, it provides the measured mass name, cable type, test result, and length. The results are categorized as 'OK', 'NOT OK', or 'Wrong connection'. The report is dated 'Mittwoch, 15. Juni 2016' and is labeled as 'Page 1'.

## Specifications



### KE7200 Ethernet Performance Tester

- Wire Test Copper**
- Check of wires connected to PIN and Pair
  - Detects split pair from 6 ft (2 m) on
  - 16 dedicated wiring schemes predefined, user settable via device
  - 16 cable types with predefined VP values, user settable via device
  - Graphical display shows wire map with clear indication good/bad
  - Measures all wires separately and shows length to fault short/open up to 150 m (TDR)

- Power over Ethernet Test**
- Activation of PoE/PoE+/PoE++ (LTPoE++) port (IEEE 802.3af/at/bt)
  - Measuring of voltage and current. Shows available power in watts

- Cable Trace**
- Hub-Link Blink Function
  - Trace tones to be detected by capacitive Probe (optional)
  - 4 tones selectable

- IP Network Testing**
- Checks network with static IP or by DHCP
  - Detect the network speed 10/100/1000 Mbit
  - IP address and MAC address settable
  - Listing of all working stations by name, IP and MAC address
  - Ping of selected addresses - frame settable between 32 and 1024 Bit
  - Shows result number of pings, lost pings, time min/max/average
  - Constant ping mode to generate traffic

- Bridge Tap (optional)**
- Detects and locates Bridge Taps

**Over voltage protection** Up to 100 Volt

**Housing** Solid and weather protected ABS with drop protection, IP52

**Battery** 4 x 1.5 V Alkaline (AA) > 40 hrs operating time

**Dimensions** 195 x 100/78 x 45 mm

**Weight** 380 g without battery

**Menu language**

**Environment**  
 Working temperature 0° – +50°C  
 Storage temperature -25° – +75°C  
 Humidity 90%, not-condensing

### KE7010 Remote Unit

- Features**
- ID programmable from 1 - 32
  - LED indicates good / bad

Solid and weather protected ABS, IP52

61 x 41 x 26 mm

30 g

Image	Type	Description
	KE7200	Ethernet Performance Tester with 2 Remote Units KE7010, PC software, test cables, and pouch
	KE7200 PRO Kit	Ethernet Performance Tester with 4 Remote Units KE7010, Capacitive Probe310 in blue, PC software, test cables and pouch

### Gossen Metrawatt GmbH

Südwestpark 15 ■ 90449 Nürnberg ■ Germany Phone +49 911 8602-999 ■ Fax +49 911 8602-125  
 www.gmc-instruments.de, www.gmc-instruments.pl, www.gmc-instruments.ru, export@gossenmetrawatt.com



07/16 - Product design and specifications subject to change without notice. All trademarks belong to their respective companies.