LAN & Ethernet Tester KE7200 / KE7100

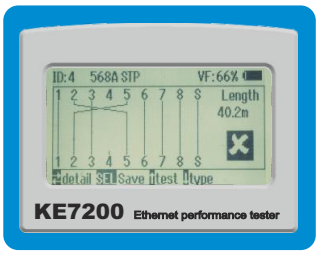
SHORTFORM USER MANUAL

Testing

The KE7200 / KE7100 checks the connected line for external voltage each time before starting one of the four possible tests. If external voltage is present, the test is not started and the level of the voltage is displayed in volts. The test may only be run after the external voltage has been turned off.

Cable test (Main menu)

The cable test can be run with or without the KE7010 Remote Unit. If it is run without the 7010Remote, only cable length is measured and a split pair check is done. When the remote unit is connected to the end, measuring the length using the TDR method is accurate enough to determine if a cable is within the 90 meter maximum length standard. This test can measure a maximum of 150 m. The wire mapping is displayed in the main window. This clearly identifies any circuitry errors. Split pairs are displayed with a branch to the linked wire which then returns. The measured distance to the panel appears in right field. Distances of less than 2 m are not shown. The measurement is too imprecise at this close range.

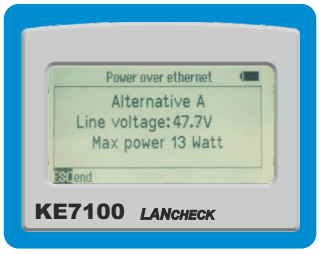


Cable / wire trace

The KE7200 / KE7100 has two different ways of identifying a known jack on the patch panel, switch or hub. Insert the test cable of the KE7200 / KE7100 into the outlet box in the room and select Test Link/Blink in the Cable/wire trace menu. This only tests if the box is active in the network. The response is displayed in the status line. If there is an active connection, the message appears: "Ethernet 10/100/1000 Mbit connection" and only the identified speed is displayed. If the port is not active, "No connection" is displayed. Then you can switch to one of the 4 tone transmission modes. The trace tone is transmitted on all of the wire pairs. The assigned port in the patch panel can be clearly identified with the PROBE.

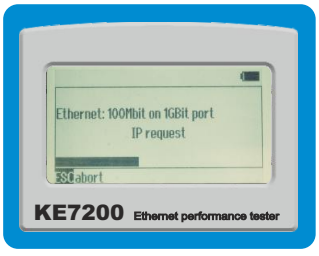
Power over Ethernet (IEEE 802.3af/at)

Start the test by pressing the SEL button. The KE7200 / KE7100 activates the PoE/PoE+ port and shows in the display whether the PoE is available or not. If the PoE/PoE+ can be activated, it is. Then the maximum load is applied to drain the cable charge. The maximum available power is then measured. This is done according to IEEE 802.3af/at. The standard regulates the voltage that can be on the line when a specific current is flowing. If the voltage is below the standard value, the KE7200 / KE7100 reduces the load until the voltage lies within the normal range. This power is then calculated and displayed.



IP test – KE7200 only

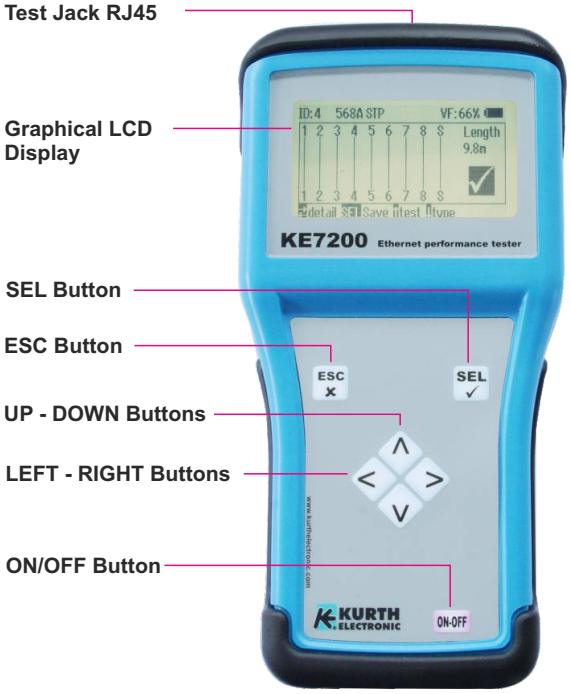
In the IP test, the KE7200 can search the network for IP addresses and users. This can be done in DHCP mode or with a fixed IP. If the network is also monitoring MAC addresses, the MAC address of the KE7200 can be changed. First, DHCP mode is started by selecting "IP test/DHCP request". A connection to the network is established. Once this is available, it is shown in the status line. The IP address allocated to the KE7200 via DHCP is displayed. The search for allocated IP addresses starts immediately in the assigned address space. The number found is also displayed. The KE7200 then queries all of the addresses for information which it lists. If names are available, they are displayed; if not, only the IP address is displayed.



Keypad

When the KE7200/KE7100 was developed, emphasis was placed on fast and easy operation. For this reason, the KE7200/ KE7100 has only seven buttons despite its many test options:

ESC	Similar to a PC, the ESC button means “undo the last step.”
ON/OFF	Button for turning device On and Off. This button has a delay of approx. 1 sec. when turning off.
Menu	The arrow buttons are for menu scrolling UP ▲ DOWN ▼ and LEFT ◀ RIGHT ▶
SEL	The SELECT button. Press this button to select a function or start a test. Similar to a PC Enter key.



Changing batteries

First loosen the two bottom screws in the bottom bumper.
Pull the bumper downward.
The four 1.5 V AA batteries are in a holder. Remove the old batteries and replace them with new batteries.
Note the polarity.
Do not combine new and old batteries. Always use batteries of the same type and date of manufacture.

Kurth Electronic GmbH / Mühleweg 11 / D 72800 Eningen u. A. GERMANY / Tel. +49(0)7121 9755 0
Fax +49(0)7121 9755 56 / info@kurthelectronic.de / www.kurthelectronic.de

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