

xDSL detector & contactless xDSL signal receiver  
with integrated cable finder functions

## KE3100 xDSL Detection Kit



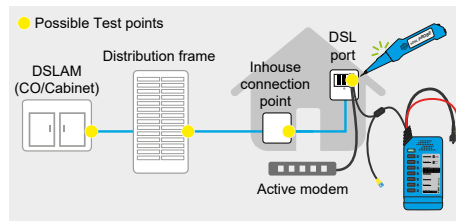
### At a glance

- xDSL availability test:  
ADSL, VDSL2, G.fast & more
- Detection of the Annex variant:  
DSL/AII-IP, DSL/ISDN, DSL/POTS
- Contactless detection of active DSL  
signals
- ETH link test, LAN port finder
- Cable finder function

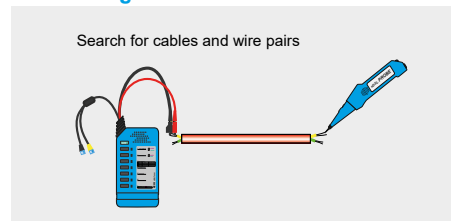
**NEW**

**KE3100—UNIQUE, COMPACT & AFFORDABLE!** The KE3100 enables technicians to detect both availability and activity of classic and IP-based DSL services.

#### xDSL Tests



#### Line tracing



#### DSLAM/ISAM activity test

The KE890 xDSL Check can activate the inactive DSLAM/ISAM at the remote end of a wired line to indicate the availability of a DSL service and the Annex variant via LED: Annex A/M (DSL via POTS), Annex B (DSL via ISDN) or Annex J (All-IP). All current xDSL services according to ITU-T G.441 are supported, for example ADSL or VDSL2 as well as the new SuperVectoring (VDSL 35b) and G.fast technology.

#### Contactless detection and classification of xDSL services

With the unique KE420 xDSL PROBE, wire pairs which carry active xDSL signals can be detected contactlessly. The active services are neither disturbed nor do they lose their connection. This way, the lines carrying an active xDSL signal can be easily determined in the Central Office (CO), at the Street Cabinet, at the house transfer point or in the building. Two LEDs indicate the activity from ADSL to ADSL2+, VDSL2 to Bandplan 17 and VDSL35b/G.fast. The brightness of the xDSL LED additionally indicates the signal strength.

#### Data port test/port finder function

The Ethernet link test enables active (patched) network connections to be detected and to be quickly and easily assigned to the corresponding port on the switch, in the LAN using the link blink function.

#### Overvoltage protection up to 500 V DC/350 V AC

Overvoltage protection protects the device in case of accidental contact with live cables >100 V.

#### Tests of cabling of all kinds

KE3100 has a cable finder function for identifying specific lines in telephone, data and coaxial as well as cables in voltage-free electrical installations. Cables can be located in ducts or walls. Wire pairs and even reversals and split pairs can be detected. A continuity test with resistance-dependent tone frequency helps to determine the copper cable condition.






### KE890 xDSL Check/Search signal transmitter

<b>Test cords</b>	Flexible test cord Test cord connection	25 cm 2x banana with crocodile clips 1x RJ11 plug with TAE adapter 1x RJ45 plug
	Strain relief on the test cords Gold-pleated contacts	■ ■
<b>Features</b>	Continuity test <b>DSL availability test</b> Resistance test by changing the tone frequency Low battery indication by flashing LED Auto power off 45/90 min./never (in toner mode) Device switch-on indicator with LED Data port test via Link-Blink function	LED + tone For services according to ITU-T G.441 such as ADSL - ADSL2+, SHDSL, VDSL2, VDSL 35b, G.fast ■ ■ ■ ■ ■
<b>Frequencies</b>	Copper (< ±1 %) Fibre	Solid : 1 kHz, 1,9 kHz, 577 Hz 270, 1000 Hz moduliert + pulse.
<b>Range</b>	Copper	Max. cable length up to 15 km without load, up to 0.4 mm Ø
<b>Transmitting power (9 V block battery)</b>		9.0 V <sub>SS</sub> without load / ~ 12 V <sub>SS</sub> with loaded battery +5 dBm at 600 Ohm for fundamental 1 kHz 0 dBm at 100 Ohm for fundamental 1 kHz -5 dBm at 50 Ohm for fundamental 1 kHz
<b>Overvoltage protection</b>		Up to 500 V DC / 350 V AC in all modes except CONT and ETH for banana plugs / Pin 4 + 5 on RJ45
<b>Dimensions</b>		150 x 65 x 26 mm
<b>Weight</b>		220 g without battery
<b>Case</b>		Solid, shock-resistant and weather-resistant ABS-case Detached battery compartment Captive Screw

### KE420 xDSL PROBE / Search signal receiver

<b>Features</b>	Flashlight function <b>xDSL signal filter LED</b>	■ ADSL-ADSL 2+, VDSL2 bis 17a / VDSL35b, G.fast
<b>Search distance</b>		To cable max. 60 cm, search depth under plaster max. 15 cm
<b>Dimensions</b>		220 x 40/35 x 25 mm
<b>Weight</b>		90 g without battery
<b>Additional hardware features</b>		Test probe made of non-conductive carbon fibre reinforced plastic 3.5 mm headphone jack Gold-plated contacts Detached battery compartment
<b>Power supply</b>		9 V block battery
<b>Casing</b>		Sturdy, impact-resistant and weather-resistant ABS-case with membrane keys

### Article description

0.49800	<b>KE3100</b>		xDSL Detection Kit consisting of: KE890 xDSL Check and KE420 xDSL Probe with protective bag
0.49800-10	<b>KE890 xDSL Check</b>		DSLAM/ISAM activity test and cable finder functions
0.49800-20	<b>KE420 xDSL PROBE</b>		Detects active xDSL signals and receives search signals during line searches
0.49600	<b>Headphone</b>		Headphone for PROBE 310/410/420/510 (hearing aid in noisy environment)
0.49700	<b>Breakout adapter</b>		Test adapter set, for looping into cables and tapping the pins of junction boxes Consisting of 6-/8-pole modular adapter with RJ11/RJ45 cable and TAE adapter