

# Innovative TDR with easy operation, fault location up to 14 km

## ■ KE2100 Time Domain Reflectometer



### At a glance

- Easy to use
- Can be used with all types of cables:  
Double core, coax and power lines
- Maximum cable length up to 14 km
- Auto-Setup with just one click
- Freeze function of the trace
- Comparison of two measurements
- Configurable cable database
- Fast pulse for short dead zone
- Indicates the distance to the fault in  
meters or feet
- Resolution 0.3 m
- Graphic display with backlighting
- Operation with 4 AA (LR6) batteries
- Robust ABS housing
- Management software included
- Storage of measurements and data  
transmission via Bluetooth



The KE2100 is a compact and handy TDR for fault location on all types of lines, two-wire lines, coax cables and power lines without service. It has a high measurement resolution and a maximum range of up to 14 km, depending on the cable type selected. Multiple output impedances are available in an automatic setup and the selectable speed factor meets all cable test requirements.

The KE2100 is intuitive to use for the user. An AUTO selection option ensures that the most effective parameters such as impedance and length are selected depending on the desired range, allowing rapid analysis of the trace.



The instrument has two cursors, one for the absolute distance to the fault, the other for measuring the distance between two events.

A trace-hold function also allows the operator to „freeze“ a trace on the screen. This allows the frozen trace to be compared with a new second trace.

The extra high resolution in combination with the white backlight gives the graphic display a high contrast and helps the user to identify important points on the trace.

With the included manager software, the cable database can be easily expanded and stored measurements can be checked. The manager also allows software updates to be downloaded to the KE2100.


# Specifications KE2100

Distance	≤ 14 km
Accuracy	+1% ± Pixel at 0.66 VF
Resolution	0.3 m
Overvoltage protection	DC 100 V; AC 230 V / 50 Hz
Output imulse	Max. 20 V pp
Impulse	12, 25, 50 100 200, 500, 1,000, 2,500 ns
Velocity factor	Variable from 0.2 to 0.99 in 0.01 steps
Impedanz	50, 75, 100, 125 Ω
Amplification	In 6 dB steps
Automatic switch-off	Adjustable for device and display illumination
Saving, data transfer	Over 100 measurements can be stored, download with manager via Bluetooth
Power supply	4 x LR6 (AA) alkaline batteries or NiMH rechargeable batteries, adjustable
Operating duration	Depending on the quality of the batteries
Suited for	All types of cables, communication, energy, coax in the building or field
Dimensions	195 x 100/78 x 45 mm
Weight	390 g without batteries
Casing	Sturdy, impact-resistant and weather-resistant ABS casing with fall protection
Interfaces	2x 4 mm safety sockets, adapter for BNC
Test leads	Copper test leads 2 m long, 4 mm banana plug with extra strong crocodile clips, 300 V Cat II
Display	240 x 128 px graphic LCD with backlighting
Menu languages	 
Operating temperature	-10°C to +50°C
Storage temperature	-25°C to +75°C
EMC	Used standards: IEC/CISPR 11:2009 + A1:2010 IEC/CISPR 16-1-2:2006 Edition 1.2 IEC/CISPR 16-2-1:2008 + A1:2010 IEC/CISPR 16-2-3:2008 + A1:2010 IEC 61000-4-1:2006 IEC 61000-4-2:2008 Edition 2 IEC 61000-4-3:2006 + A1:2007 + A2:2010 IEC 61000-4-8:2009 IEC 61326-1:2012 IEC 61326-2-1:2012



Scope of delivery:



	Type	Description
0.49210	KE2100	Time Domain Reflectometer up to 14 km, test cords, PC software and protective bag
0.57488	Adapter BNC	Adapter 2x banana / plug to BNC Coax