

# Featured graphical TDR

## KE-TDR06



### Product Features

- Cable Fault Location up to 6000 m (19,800ft)
- Zero dead zone
- Simple to use
- Cable Impedance selectable
- Continuous scan and scan lock function
- Ultra-Bright 64 x 128 electro-luminescent LCD
- Backlite
- Rugged Custom Enclosure designed for Field Use



#### Cable Fault Location up to 6000m (19,800ft)

The KE-TDR06 can locate the presence of cable faults, including shorts, opens, taps, splices, water ingress and other impedance anomalies, on copper communication cables up to a distance of 6000 m (19,800 ft). KE-TDR06 has with the 3 nanoseconds pulse a "near End" dead zone of 0.

#### Suitable for all types of Communication Cable

The KE-TDR06 has selectable 25, 50, 75 and 100 Ohm impedance ranges making it suitable for use on all types of metallic communication cable including Coaxial and Twisted Pair. Velocity of propagation is variable between 1% and 99%, in 1% increments.

#### Auto Ranging Scale linked to Cursor Position

The KE-TDR06 has five measurement ranges, the most appropriate of which is automatically selected by the instrument dependent on the position of the cursor. This function reduces the time spent in the field locating the cable fault or anomaly.

#### Built in Tone Generator (Oscillator)

With a built in tone generator, injecting an oscillating signal between 810 Hz and 1110 Hz into the cable under test, the operator can trace the cable and also identify pairs within a bundle, using the KE310 tone probe

#### Single Shot or Continuous Sampling Output Pulse

For simple faults the KE-TDR06 can be used in Single Shot mode where a test pulse is only transmitted each time a cursor key is pressed. This function conserves battery life.

For more elusive faults the test button can be held down, whereby the KE-TDR06 will transmit 6.7 test pulses per second. This rate is 6.7 times that of most equivalent competitive products, and makes the KE-TDR06 more likely to identify intermittent faults. The Cable can be continuous be scanned or the trace can be held for further analysis by the Scan Lock feature.

#### Ultra-Bright 64 x 128 Electroluminescent LCD

The KE-TDR 06 features an ultra-bright 64 x 128 electroluminescent LCD ensuring that the instrument display is clearly visible under all lighting conditions and with adequate pixel resolution to ensure accurate fault location

#### Built into a Tough Water & Dust Proof ABS Enclosure

The KE-TDR06 is built into a custom designed ABS enclosure capable of withstanding a drop of 1m onto concrete. It also incorporates an impact resistant ABS display window and is protected against the ingress of dust and water to IP54. These qualities ensure the suitability and survival of the product under extreme field conditions.



## Specifications

Ranges @ Vp=70%	1m, 15m, 30m, 60m, 120m, 500m, 1000m, 2000m, 3000m, 6000m 3ft, 45ft, 90ft, 180ft, 360ft, 1500ft, 3000ft, 6000ft, 9000ft, 18000ft
Range Selection	Automatic range selection against cursor position
Measurement Accuracy	+/- 1% of range assuming correct VOP setting
Measurement Resolution	Approximately 1% or selected range
Measurement Sensitivity	Minimum 3 pixel return on a fault at 2km (6000ft)
Velocity of Propagation	Adjustable from 1% to 99% in 1% steps
Cable Impedance	Selectable between 25, 50, 75 and 100 Ohms
Display Resolution	128 x 64 pixel Graphical Liquid Crystal Display
Display Backlight	Electroluminescent
Tone Generator	Oscillating between 810Hz and 1110Hz
Transmitted Pulse Height	+5v into an open circuit or +1.5v into 50 Ohm load
Transmitted Pulse Width	3ns min to 2.15us dependent on range
Scan Rate	Single Shot or 6.7 pulses per second (operator selectable)
Power Supply	6v (4 x AA cells)
Battery life indication	0 to 100% "Gas Guage" Bargraph
Auto Power Down	3 minutes
Battery Life	Standby mode > 4000 hrs Continuous scanning (6.7/sec) >7.5 hrs
Storage Temperature	-20 to 70 deg. C (-4 to 158 deg. F)
Operating Temperature	0 to 40 deg. C (32 to 112 deg. F)
Dimensions	165 x 90 x 37mm
Weight	350gms (12oz)
Ingress Protection	IP54
Safety	IEC61010-1, EN60950
EMC	BS/EN61326-1
CE	Compliant with current EU directives

Article-N0.	Type	Description
04403400	KE-TDR06	Graphical TDR max. 6 km / 18,000 ft with pouch, test leads, batteries and operation manual
0.49561	Probe	Probe KE310