



### Replacing Batteries

Remove 4 fixing screws and lift off cover. Remove batteries and replace with either 4 x AA Alkaline batteries or Nickel Metal Hydride (rechargeable). Ensure correct polarity when refitting. Refit cover and screws.

### Technical Specification

**Ranges meters** 7, 15, 30, 60, 120, 250, 500, 1km, 2km, 3km, 6km  
**feet** 23, 49, 98, 197, 394, 820, 1640, 3280, 6560, 9850, 19000  
**Range Selection** Manual range control  
 Dual cursors with a distance measurement between cursors  
**Accuracy** 1% of selected range\*  
**Resolution** Approx 1% of range  
**Sensitivity** Min 3 pixel return at 4km on 0,6mm  $\Delta E$ , PE, TP  
**Velocity Factor** Adjustable from 1% to 99%  
**Output Pulse** 5 volts peak to peak. Into open circuit  
**Output Impedance** Selectable 25, 50, 75 & 100 ohms  
**Output pulse Width** 3 ns to 3 ms, Automatic with range  
**Scan Rate** 2 scans / second or scan held  
**Tone Generator** 810 – 1100Hz  
**Battery Life** 7 hours typical use  
**Power Supply** 6 volts, 4 x 1.5 AA Alkaline cells  
**Power Down** Selectable 1, 2, 3, 5 minutes or disabled  
 Back Lit Display and keyboard (Display 320x240 QVGA)  
**Voltage Detection** 250 volts AC  
**Operating Temp** -10<sup>o</sup> / 50<sup>o</sup>C  
**Storage Temp** -20<sup>o</sup> / 70<sup>o</sup>C  
**Dimensions** 220x98x58 mm  
**Weight** 0.5 Kg  
 Safety IEC 61010-1  
 EN 60950  
 EMC BS/EN 61326-1  
 Protection Class IP67

The TX8000 is 6Km range Time Domain Reflectometer housed in a rugged over moulded case being water proof to IP67 and drop resistant, designed for outside use, but sufficiently small and light weight for widespread use. Using a 3.5-inch QCGA colour display information is clearly displayed; an illuminated key pad makes the TX8000 ideal for use in poorly lit areas.

Using 11 range scales with a first range of 7 meters near end faults are clearly visible. Using the scan hold facility faults may be retained on screen for closer examination or when in scan mode intermittent faults may be easily identified. The user variable gain control allows small events on the waveform to be magnified for clearer identification. With dual cursors each cursor giving its length measurement and a differential distance between cursors the length of a fault may be identified. To assist in the identification of faults a number of known fault types may be super imposed over the displayed fault for easier identification

# TX8000

## Quick Start Operating Instructions



BEFORE USE READ THE FULL INSTRUCTION MANUAL WHICH IS AVAILABLE TO DOWNLOAD FROM OUR WEBSITE.

www.bicommunications.co.uk

**DO NOT USE ON LIVE OR ACTIVE CIRCUITS**

## Operation

**Power ON** – Press key (5) and release, **Power OFF** press key (5) and hold for 2 seconds

**Key Pad Illumination**- press key (5) to Turn on/off.

If the unit is fitted with new batteries, or the batteries have been removed and refitted a message will appear for the user to select the battery type press keys (3 / 6) to highlight the battery type, press key (9) to select.

**The main menu –**

1. Measurements
2. Settings
3. Help

To select a menu option, use keys (3 / 6) to highlight, press key (8) to select.

**Measurements** this is the measurement screen, the parameters listed below are displayed along the top and the right-hand side of the display these may be changed as follows,

to select Press key (5) until parameter is highlighted press keys (3 / 6) to change value

**Impedance** – selectable for 25,50,75 and 120 ohms

**VoP**- selectable between 1 and 99% or feet/ meters per microsecond

**RANGE**-Selectable from 7meters to 6Km or Feet (11 range scales)

**Scan mode** select between **Cont, Once or Tone**



1. To commence trace
2. Escape to exit TDR mode
3. Increase setting
4. Cursor right/Option
5. On/Off and keyboard light
6. Decrease setting
7. Cursor left/Option
8. Enter to save selected setting and select active cursor
9. Set/Sel to select screen options

**CURSOR MODES C1, C2** – The TDR can be operated on single cursor **C1** (RED) or dual cursor **C2** (GREEN), to move the cursor to fault position on cable use keys (4/ 7). When in Dual cursor mode keys (4/7) default to **C1** cursor. To change between cursors, press (8). A small arrow will be shown on the top of the selected cursor. The distance between cursors is displayed in bottom right of display.

**GAIN** To change gain value press keys (3/7)

? A range of fault conditions may be superimposed on the screen, to scroll through these Press keys (3/6)

**To exit TDR mode** – Press key (2),

## SETTINGS MENU

**VoP unit**, % or meters / feet per m/s

**Length unit**, meters or feet (the VoP will be displayed in the unit selected)

**Display brightness**, high, medium or low

**Auto Shutdown**, disabled or 1,3,5,10,15, minutes

**Language**, English, Polish, German and Spanish

Press keys (3 / 5) to highlight option, keys (4 / 7) to change setting, to exit screen press key (2)

**HELP This** lists a number of cable types with their impedance and VoP values