LABLINE

PORTABLE TELEPHONE LINE SIMULATOR



- **Real line feed**
- **Selectable line current**
- **8 digit display with 64 digit memory**
- **Tone and Pulse dialled digits displayed**
- **Digit timings**
- **Handset for speech**

Labline simulates a telephone line and is ideal for the test and repair of telephones, answering machines, DECT products and auto-diallers. The product is simple to use and non-technical staff can be trained in minutes. It can then be used to sort out faulty products from working ones.

Labline is very useful to the telecom technician as well. It provides a virtual telephone line on the bench and different functions can be selected literally at the flick of a switch.

FEATURES

MASTER SOCKET
48 V feed is supplied to simulate real conditions. Line polarity can be changed and current switched from High to Low representing a 1 km or 7.5 km line.

Dial tone can be provided when the device seizes the line and is stopped when the first dialled digit is detected. Dial tone is particularly useful for checking auto-diallers that need dial tone to initiate signalling.

DIGIT DISPLAY
The number dialled by the device under test is displayed on the eight digit display; up to 64 digits can be scrolled. Pulse, Tone or a mixed digit stream can be displayed. Tone digits are shown with a dot underneath.

BAR GRAPH
This is useful for assessing tone levels during dialling, speech levels to line from an answering machine or data levels during modem transmission. Levels are displayed in dBm.

RINGING
Realistic ringing signal is a near sinusoid and is DC backed. It has a source impedance of 3 kΩ, which is typical to those found on the network. The ring level adjusted at the rear of the unit.

RECALL SIGNALS
Timed Break Recall (TBR) signals greater than 80 mS are detected and shown by an R on the display. Earth Recall signal is displayed as an E on the LCD.

LINE LOOPED
An LED lights to indicate the line is seized and flashes when ringing is applied to the device under test.

PULSE DIAL TIMING MEASUREMENTS
Make, Break and Interdigit times are detected and displayed in milliseconds from the last digit dialled (or the last two digits for IDP).

TONE DIAL TIMING MEASUREMENTS
Tone On and Tone Off times are detected and displayed. The On time is measured from the last digit dialled and the Off time is based on the pause between the last two digits.

PULSE DIAL TIMING ERROR
During Pulse dialling if the Make or Break times are outside the limits, an error message is flashed on the display.

LINE BREAK
A momentary line break can be sent to the unit under test by using this switch. This is useful for generating a "calling party clear" signal to clear down answering machines.

HANDSET
A telephone handset is supplied. This plugs into the rear of the unit and is used to listen to messages from or record messages to answering machines. It can also be used for speech connections.

SPECIFICATION

MASTER SOCKET	
DC VOLTAGE	48 V ± 5%
FEED BRIDGE	2 x 200 Ω ± 10%
DC RESISTANCE	180 Ω ± 10% (= 1 km line) 1380 Ω ± 10% (= 7.5 km line)
DIAL TONE	
FREQUENCY	350 Hz + 440 Hz
LEVEL	-8 / -14 dBm
RINGING	
VOLTAGE	70 V ± 10% rms (factory default)
USER LEVEL	Adjustable from 0 V to 95 V rms
FREQUENCY	25 Hz
TYPE	AC (near sinusoid), DC backed
CADENCE	PSTN
PULSE DIALLING	
MAKE	25-41 mS
BREAK	50-82 mS
IDP	>200 mS
ON-HOOK	>300 mS
OFF-HOOK	>200 mS
TBR	80-110 mS
TONE DIALLING	
TONE TIME	>40 mS
ACCEPT FREQUENCY	± 1.5%
REJECT FREQUENCY	± 3.5%
BAR GRAPH	
REFERENCE	Top LED set to - 1dBm ± 1 dB
RANGE	3 ± 1 dB per LED
TOLERANCE	
unless otherwise specified	
FREQUENCY	± 10%
TIMING	± 10%
LEVEL	± 3 dB
POWER	
MAINS	230 V, 50 Hz, 50 mA
DIMENSIONS	
HEIGHT	100 mm
WIDTH	160 mm
DEPTH	160 mm
WEIGHT	1.5 kg

TELE PRODUCTS

SERVING THE TELECOMMUNICATIONS INDUSTRY

Tele-Products Limited Unit 1D Northminster Business Park Northfield Lane Upper Poppleton York YO26 6QU United Kingdom
TEL +44 (0)1904 794200 FAX +44 (0)1904 780054 E-MAIL info@tele-products.com WEB www.tele-products.com

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