

**Aplab Track-Signal Test Meter** incorporates Digital Signal Processing based design to provide high accuracy and stability. It is designed for level measurement of selected frequencies. It also provides functionality of AC and DC voltage measurements.

The purpose of Track-Signal Test Meter is to make adjustments, control measurements and inspections on both audio frequency track circuits of types FTGS 46, FTGS 917 and also for TI21M type track circuits (now known as BI track 300) for the measurement of eight frequencies from 5700Hz to 8500Hz for metro applications. Its compactness and battery operation render the unit particularly suitable for portable applications in maintenance and for level measurement in communication systems.

## **Technical Specifications**

## A. MEASUREMENT & INSPECTION MODE

Voltage Measuring Range : 1mV - 250V.

Range Selection : Automatic with range hold facility (within <1 sec).

OR

Manual selector switch for following ranges
Ranges Valid Data Input Level

0-20mV 1mV-20mV 0-200mV 10mV-200mV 0-2V 100mV-2V 0-20V 1V-20V 0-250V 1V-250V

**Accuracy** :  $\leq 3\%$  (for full scale).

Adjacent Channel Rejection : >36dB (Each related to channel mean frequency).

Rejection with 2-Channel Spacing : >46dB.

Measurable Frequencies : Auto-ranging or Manual Selector (↑↓ arrow keys)

Measurement Mode Frequencies :

Option 1 : (3dB BW - 140Hz)

1549 / 1699 / 1848 / 1996 / 2146 / 2296 / 2445 / 2593 / 5300 / 5700 / 6100 / 6500 /

6900 / 7300 / 7700 / 8100 / 8500 Hz.

Option 2 : Band I (3dB BW - 240Hz)

3750 / 4250 / 4750 / 5250 / 5750 / 6250 / 6750 / 7250Hz.

Band II (3dB BW - 480Hz)

9500 / 10500 / 11500 / 12500 / 13500 / 14500 / 15500 / 16500 Hz.

Option 3 : Band I (3dB BW - 240Hz)

2100 / 2500 / 2900 / 3300 / 3700 / 4100 / 4500 / 4900 Hz.

: Band II (3dB BW - 480Hz)

9500 / 11100 / 12700 / 14300 / 15900 / 17500 / 19100 / 20700 Hz.

Input Protection : 300Vrms AC max. / 300V DC max. (dc+ac peak should be less than 450V).

**B. MULTIMETER MODE** 

DC Voltage Measuring Range : 10mV - 250V.

Range Selection : Automatic with range hold facility (within <1 sec).

(Wide Band - 5Hz to 10KHz)

**Accuracy** : ≤2% (at 50....60 Hz mains frequency).

Frequency Measuring Range : 00.10KHz to 99.99KHz.

**Accuracy** : ≤0.5% (For frequency above 3KHz, U<sub>meas</sub>≥30mV).

C. GENERAL

**Input Resistance** : <200K ohms.

Display : Low power display with backlit. Active area 29 mm x 66.5 mm. Screen 2.9 inch.

Power : Internal Rechargeable (Li-Ion) Battery.

 Backup
 : >8 hours.

 Input
 : 230V AC ±10%.

 Operating Temperature
 : 0°C to 50°C.

 Storage Temperature
 : -20°C to 60°C.

**Connections** : 4mm Terminal suitable for shrouded plug.

D. ACCESSORIES

5mm to 2mm Pin Test Leads: 1 PairCharger: 1 No.Instruction Manual: 1 No.Carrying Case: 1 No.

