

TCM011 ADVANCED CABLE CHECKER

The Advanced Cable Checker is a sophisticated and operationally flexible cable checking system used to test room cables and wiring for evidence of listening devices.

The Advance Cable Checker includes the following features; highly sensitive audio frequency amplifier, tuneable low frequency radio receiver, digital display meter , integral tone generator and Isolated DC power output . These features combine to provide an invaluable tool for the detection of microphones and other bugging signals at levels from microvolts to volts on all types of cable including AC and DC power cables and telephone lines.



User Benefits

- Highly sensitive audio frequency amplifier with adjustable audio levels to allow both very quiet and loud sound to be recorded and listened to easily
- Tuneable low frequency radio receiver to allow location of sub-carrier bugging devices on AC and DC power cables
- Digital display metre to detect the presence of DC power on wire pairs and to measure line condition changes.
- An integral variable sweep tone generator is used to activate single tone remotely controlled bugging devices.
- The isolated DC power output enables detection of FET or Elecret microphones connected to the cable being tested
- Switchable cable loads enable line resistance testing and mimicking of the use of the telephone.
- Test equipment included for training and setup purposes

Specifications:

Audio Amplifier:

Sensitivity: Typically 30 μ V for 10 dB S/N output, 600 ohm source at 1 KHz

Impedance	(input) Nominally 5 kohm at 1 KHz
Bandwidth	(audio) Nominally 300 Hz - 15 KHz
	Automatic gain Control (agc)
Output	Held to typically +/- 2 dB for input singals from 20 μ V to 2 V rms at 1 KHz (100 dB agc). Unit has automatically switched dual gain stage with hysteresis of typically 6 dB.

Tuneable Receiver

Frequency	Range typically 15 KHz - 400 KHz. Source selectable between Line and Mains Live/Neutral and Live, Neutral combined to Earth combinations.
Sensitivity	Typically 100 μ V for 10 dB S/N at 2.5 KHz deviation, 1 KHz modulation frequency at 100 KHz
Selectivity	Typically 50 dB rejection at +/- 10 KHz
IF rejection	Better than 50 dB at 455 KHz
Image rejection	Typically 30 dB
Outputs	AM and FM demodulation selectable with full agc.

Tone Generator

Frequency	Range typically 200 Hz - 8 KHz triangle wave output
Level	Nominally 30 mV rms at 1 KHz into 600 ohms
DC Output	Nominal 10 VDC source limited by 6 Kohm resistor
Line Load	Switchable nominal 250 ohm and 1 Kohm resistors may be connected across input

Meter

Type	Digital LCD
Ranges	0 - 1.999 VDC or 0 - 199.9 VDC

Power Requirements

Mains	Charger powered from AC Mains (selectable 85 - 130 and 185 - 260 VAC 50/60 Hz supply) Requires 16 hours to fully charge an exhausted battery provided the unit is switched OFF.
Battery	Internal rechargeable 6 V Ahr Sealed lead-acid battery providing 15 hours operation Internal Alkaline PP3 for Meter (provides in excess of 1000 hours operation)
Dimensions:	90 x 260 x 320 mm (H x D x W)
Carry case:	130 x 360 x 510 mm (H x D x W)
Weight:	Unit 2.2 kg
In carry case:	3.8 kg