

TCM-03 phone tap detector

TCM-03 is a sophisticated and operationally flexible cable checking system used to test room cables and wiring for evidence of listening devices.

Features of the TCM-03:

- Highly sensitive audio frequency amplifier
- Tuneable low frequency radio receiver
- Digital display meter
- Integral tone generator
- Isolated DC power output

The combination of these features provide an armoury of tools for assisting in the detection of microphone 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 meter 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 Electret 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



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Analogue Telephone and Mains Carrier Protection

TCM-03 phone tap detector

Technical Specification

Audio Amplifier

Sensitivity	Typ. 30uV for 10dB S/N, 600ohm source at 1kHz
Impedance	(Input) nominally 5kohm at 1kHz
Bandwidth	(Audio) nominally 300Hz – 15kHz
Output	Held to typically +/-2dB for input signals from 20uV to 2V rms at 1kHz (100dB AGC range). Unit has automatically switched dual gain stage with hysteresis of typ. 6dB

Tunable Receiver

Frequency	Typ. 15kHz – 400kHz source selectable between Line and Mains Live/Neutral and Live, Neutral combined to Earth combinations
Sensitivity	Typ. 100uV for 10dB S/N at 2.5kHz deviation, 1kHz modulation frequency measured at 100kHz
Selectivity	Typ. 50dB rejection at +/- 10kHz
IF rejection	Better than 50dB at 455kHz
Image rejection	Typ. 30dB
Outputs	AM and FM demodulation selectable with full AGC

Tone Generator

Frequency	Range typ. 200Hz – 8kHz triangle wave
Level	Nominal 30mV rms at 1kHz into 600ohms
DC output	Nominal 10V DC source limited by 6kohm resistor

Meter

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

Power

Mains	Charger powered from AC mains (selectable 85 – 130 and 185 – 250VAC 50/60Hz supply)
Battery	Internal rechargeable 6V sealed lead acid battery providing 15 hours operation Internal alkaline PP3 for meter (provides in excess of 1000 hours operation)

Mechanical

Unit size	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	2.2kg (unit), in carry case (3.8kg)

Warranty

TCM-03 comes with a return to base warranty against defective materials and workmanship for a period of 2 years from delivery. With regular authorised maintenance and recalibration of the unit the basic warranty can be extended for a further period.

Technical Support Group

The Audiotel Technical Support Group (TSG) can be contacted during UK office hours on:

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or via the Contact Us page on the Audiotel website.

Core UK office hours are (GMT):
Mon.-Thur.: 09:00am to 5:00pm
Fri.: 08:30am to 4:00pm

Training

Audiotel is able to offer full training in the operation or our products together with general counter measures training and seminars.

Due to our policy of continuous improvement, all specifications are subject to change without notice.

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