

LF941D

TV Signal Level Meter



- **Digital Terrestrial TV + Digital CATV**
- **Digital Display All Channel (VHF + UHF + CATV)**
- **Easy Operation, Low-Cost Model**
- **Padded Carrying Case Supplied**

The model LF 941D TV Signal Level Meter enables speedy and accurate measurement of CATV, FM and VHF/UHF TV signals. This RF level meter measures levels of digital broadcast signals for MSK, BPSK, QPSK, 16 to 256 QAM, OFDM and 8VSB modes as well as conventional analog broadcast signals. Programmable presets are provided for storage and recall of ten arbitrary frequencies, these could be set for frequently used, cable, TV/FM broadcast or pilot signal channels. The large digital display for level readout and bargraph level indicator for antenna installation enhances fast and accurate level measurements. This compact & lightweight level meter is ideal for VHF/UHF antenna and CATV installations.

Features

- **Auto detects digital and analog VHF/UHF TV & CATV**
- **Ten programmable presets store and recall arbitrary frequencies**
- **Digital level readout for easy and accurate measurements**
- **Sound carrier level can also be measured**
- **Selectable channel tables enable worldwide use**
- **CATV channel tables include standard, HRC and IRC systems**
- **Time settable automatic sleep saves battery power**
- **Continuous 12-hour operation with six alkaline C cells**
- **Compact, lightweight (<3 lbs), and easy operation ideal for field use**

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Specifications

Frequency Range

46 to 870 MHz (50 kHz steps)

*Does not operate 47.8 to 48.4 MHz and 95.8 to 96.2 MHz

Frequency Setting

Settable in 50 kHz steps

(The frequency of memory channels can only be set)

Built-In Channel Tables

USA (CATV channel plans of STD, HRC, IRC),

Japan, ITU-R (CCIR)

China, UK, Hong-Kong, Indonesia, Australia

(Switch Selectable)

Level Measurement

Broadcast Format

Analog: AM (video), FM (sound), CW

Digital: MSK, BPSK, QPSK, 16 to 256 QAM, OFDM, 8 VSB

(Channel bandwidth: 5 MHz, 6 MHz, 7 MHz, 8 MHz)

Resolution

1 dB

Measurement Bandwidth: 280 kHz (typical)

Measurement Range

Analog: -30 to 50 dBmV, (30 to 110 dB μ V (1 dB steps)

Digital: -15 to 40 dBmV, (45 to 100 dB μ V (1 dB steps)

Accuracy

Analog: ± 3 dB

Digital: ± 3 dB (Frequency response of channel bandwidth should be flat)

Detection Method

Analog: Peak detection

Digital: Average-value detection

Display

LCD Panel

Display Area: 30 x 70 mm

Input Connector

F-type, 75 Ω

Monitor Output

FM detection (sound frequency)

AM detection (video frequency)

Output connector

3.5 mm, monaural jack (for earphone)

Memory

Number of Channels: Up to 10 channels

Storable Items: Frequency, Modulation type
(analog or digital)

Environmental Conditions

Operating

Temperature Range: 32° to 113° F, 0° to 40° C

Humidity Range: 85% RH (no condensation)

Spec Guaranteed

Temperature Range: 32° to 113° F, 0° to 40° C

Humidity Range: 85% RH (no condensation)

Storage

Temperature Range: 14° to 122° F, -10° to 50° C

Operating Environment: Indoor/outdoor use

Operating Altitude: Up to 6,560 feet, 2,000 m

Over Voltage Category: I

Pollution Degree: 2

Power Requirements

6 C cells

Power consumption: Up to 2.5 W

Battery Life:

At least 12 hours with alkaline batteries
(room temperature)

At least 4 hours with high grade manganese batteries

Automatic Power-off: 5, 10, 20, 60 minutes, continuous

Physical

Dimensions (WxHxD)

7 x 2³/₄ x 7⁷/₈ in., 180 x 68 x 200 mm (excluding projections)

Weight

1.87 lbs., 850 g (excluding batteries)

Approx. 2.86 lbs., 1.3 kg (including C batteries)

Supplied Accessories

Carrying Case

C cell batteries (6)

Instruction Manual