TV Signal Level Meter

LF 941D

- *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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Key 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 dBµV (1 dB steps)
Digital: -15 to 40 dBmV, (45 to 100 dBµV (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, 75Ω
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 (W x H x D)
7 x 2¾ x 7⅞ 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