



Signal Level Meter Handles Upstream CATV Digital Broadcast-Terrestrial TV, CATV, Satellite

The LF 983 measures analog signal levels for VHF/UHF/FM/CATV; as well as digital (8VSB, OFDM, QAM 16-256) and satellite analog and digital (QPSK, 8PSK, BPSK, MSK) modes. Sub-band frequency coverage from 5 to 55 MHz is standard. Storage of 200 sets of data and 200 setups facilitates data collection and cloning. Data logger stores readings direct to a standard flash memory card and then easily transferred to a PC. Resume, on power-up, returns to the last screen viewed. Audio monitoring is via a built-in speaker and line output. A video-out jack sends composite video to a color picture monitor. Analog and digital reception is verified with a basic spectrum display. For satellite C/N and LNB drive is provided. Programmable power-off extends operating time. The meter is supplied with a charger/adaptor, battery pack, spare battery tray and a carrying case.

FEATURES

- 5-870 MHz VHF/UHF/FM/CATV, 950-2150 MHz Satellite IF Coverage
- Level Readings for Analog/Digital 8VSB, OFDM, QAM-256; QPSK, BPSK, 8PSK & MSK
- Spectrum Display Helps Assess Reception Conditions
- C/N for Analog & Digital Satellite
- DC Output for LNB Power and Control
- Extensive World- Wide Channel Charts
- Data Logger to User's Flash Card

LF 983 SPECIFICATIONS

Measuring Frequency Range VHF /UHF /CATV Satellite	5 to 870 MHz 950 to 2,150 MHz
Built-in Channel Tables Terrestrial TV, CATV	USA, Jerrold, CCIR, + 18 others Satellite USA-DBS, USA C-Band, + 7 others
Level Measurement VHF /UHF/CATV Analog Digital Range Analog Digital Resolution	AM (Video), FM (Sound) 8VSB, 16-256 QAM, OFDM, BPSK, QPSK, MSK 30 to 120 dB μ V (-30 to 60 dBmV) 45 to 120 dB μ V (-15 to 60 dBmV) 0.1 dB

Accuracy Analog Digital	± 2 dB (20 to 30° C) ± 3 dB (20 to 30° C) precise measurement mode
V/S Measurement Range Simple Spectrum Display Span Range	± 25 dB (Sound ref. video level) 10 MHz Automatic setting
Satellite Analog Digital Range Resolution and Accuracy C/N Measurement (satellite only) Range Resolution and Accuracy	FM BPSK, QPSK, 8PSK 40 to 100 dB μ V (-15 to 40 dBmV) 0.1 dB, ± 2 dB (20 to 30° C) 5 to 25 dB (level ≥ 65 dB μ V) 0.1dB, ± 2 dB (20 to 30° C)
DC Output Voltage & Current	+11 to +18 V, 250 mA
RF Inputs	F type, 75 Ω quick change
Superimposed Voltage Measurement AC DC Resolution & Accuracy	5 to 100 Vrms (50/60 Hz) 5 to 50 V 0.1 V, $\pm 5\%$ + 1 V
Sound Monitor (Level Measurement) Detection Method Earphone Connector	AM detection (built-in) FM detection (sound) 3.5 mini-jack
Video Monitor Output Video Output	NTSC-M, PAL-B, D, G, H, I SECAM-B, D, K 1 Vp-p into 75 Ω
Memory Program Memory Data Memory Memory Card Slot	200 Measurement screen settings 200 Level(s), data, time by channel CFA TYPE-I or II compact flash card
RS-232C, I/O Connector Function	9-pin D-sub Print, Data and Remote Control
Data Logger Time Interval	1 to 999 minutes, 1 minutes steps Memory Card (compact flash card) 99,999 max.
Environmental Conditions Operating Temperature	0 to 40°C, $\leq 85\%$ RH
Power Requirements	4.5 W, 9.5 W (max. powering LNB)
Physical Dimensions (W x H x D) Weight (with battery pack)	7 7/8 x 3 7/8 x 8 1/4 in., 199 x 99 x 210 mm 5.3 lbs., 2.4 kg
Supplied Accessories	Rechargeable Battery pack Battery Tray for six "C" cells AC Adapter/Charger LC 2248 Carrying Case
Optional Accessories	LC-2098 RS-232C Cable for IBM-PC MP-500 Lithium-ion Battery Pack