

# Signal Level Meter

- 5-870 MHz, 950-2150 MHz Satellite IF Coverage, Sub Band
- 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

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, in the clear, 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.

## key specifications

### MEASURING FREQUENCY RANGE

#### VHF /UHF /CATV

5 to 870 MHz

#### Satellite

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: AM(Video), FM(Sound)

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

#### Range

Analog: 30 to 120 dBmV (-30 to 60 dBmV)

Digital: 45 to 120 dBmV (-15 to 60 dBmV)

Resolution: 0.1 dB

#### Accuracy

Analog:  $\pm 1$ : 2 dB (20 to 30° C)

Digital:  $\pm 3$  dB (20 to 30° C) precise measurement mode

#### V/S Measurement Range

$\pm 25$  dB (Sound ref. video level)

#### Simple Spectrum Display

Span: 10 MHz

Range: Automatic setting

### SATELLITE

Analog: FM

Digital: BPSK, QPSK, 8 PSK

Range: 40 to 100 dBmV (-15 to 40 dBmV)

### Resolution and Accuracy

0.1 dB,  $\pm 2$  dB (20 to 30° C)

### C/N Measurement (satellite only)

Range: 5 to 25 dB (level  $\geq 65$  dBmV)

### Resolution and Accuracy

dB,  $\pm 2$  dB (20 to 30° C)

### DC Output Voltage & Current

+11 to +18 V, 250 mA

### RF INPUTS

F type, 75 W quick change

### Superimposed Voltage Measurement

AC: 5 to 100 Vrms (50/60 Hz)

DC: 5 to 50 V

Resolution & Accuracy 0.1 V,  $\pm 5$  %

### SOUND MONITOR (Level Measurement)

#### Detection Method

AM detection (built-in)

FM detection (sound)

Earphone connector: 3.5 mini-jack

### VIDEO MONITOR OUTPUT

NTSC-M, PAL-B, D, G, H, I

SECAM-B, D, K

Video Output: 1 Vp-p into 75W

### MEMORY

#### Program Memory

200 Measurement screen settings

#### Data Memory

200 Level(s), data, time by channel

#### Memory Card Slot

CFA TYPE-I or II compact flash card

### RS-232C, I/O

Connector: 9-pin D-sub

Function: 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, 30 to 85 % RH

### POWER REQUIREMENTS

4.5 W, 9.5 W (max. powering LNB)

### PHYSICAL

Size (W x H x D)

7 7/8 x 3 7/8 x 8 1/4 in.,

199 x 99 x 210 mm

Weight (with battery pack)

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

LC-1580 DC Adder for converter power

Supply

MP-500 Lithium-ion Battery Pack