

PROLINK-1B



Analogue and Digital TV

The **PROLINK-1B** is an instrument that covers the terrestrial, cable TV and microwave distribution (MMDS) frequency bands. It is ideal for those applications where it is envisaged there will be a requirement to measure analogue and digital signals. The **PROLINK-1B** offers excellent technical specification with unparalleled monitoring system performance.

Frequency ranges

This instrument covers the entire 46 to 870 MHz frequency band. The option OPT-101-67 provides a frequency extension of 5 to 48 MHz, this being of invaluable for 'return path' cable TV measurements.

Channels or frequencies

The use of frequency synthesis guarantees high stability and leads to high measurement accuracy.

The **PROLINK-1B** makes advantage of new technology whilst maintaining links with established measurement practice. For instance, channels and frequencies continue to be selected by means of rotary encoder with two speeds, so that access to the required channel is quick and simple. The instrument allows the user to select any channel plan by means of the **RM-101** software.



Signal level measurement

The level reading can be in the form of a numeric or a bar graph display. The numeric display is of benefit where definitive measurements must be made, for example, at outlet taps or amplifier points. The bar graph is ideal for FM, UHF and MMDS aerial alignment work. The large alphanumeric LCD display has a back light, being useful under adverse lighting conditions.

Supply to auxiliary devices

The OP-101-16 option makes it possible to supply volts to mast head amplifiers and external units in MMDS microwave link applications.



DIGITAL CARRIER



The LCD display is fast acting and the meter has good signal sensitivity, making this new style approach to level measurements most acceptable. The measurement units can be chosen before delivery or by the user with the **RM-101** software. The attenuation is semiautomatic featuring a 30 dB scale range.

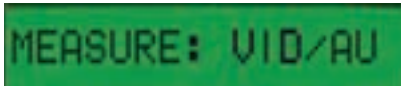


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Audio / Video ratio measurement

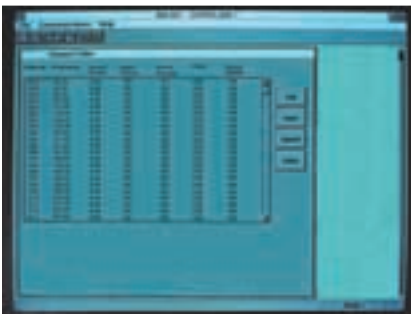
The Video/Audio ratio shows the difference between the video and audio carriers.

There are optimum values for this parameter in every television standard. It is quite common to ignore this measurement when supervising installations, but it must be borne in mind that an incorrect Video/Audio ratio will result in lower audio quality as well as serious possibilities for interference in the video. The audio carrier can be selected for different television standards. The PROLINK-1B is also able to demodulate FM and AM radio signals. It includes a loudspeaker.



Connection to computer

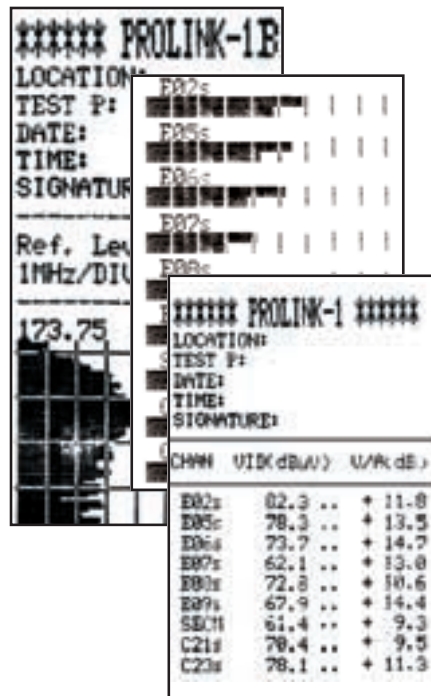
The user can control the different functions of the PROLINK-1B through the RS-232C connector, this being a standard on the meter. With the RM-101 it is also possible to edit channel plans, measurement parameters, and so on from the computer.



Connection to printer

One of the main characteristics of the meter is that it enables the user to obtain printed information on any RS-232C compatible printer.

If the instrument is set to the Numerical Mode, the printed list will show numerical values. In the Graphic Bar Mode, the report will show a bar graph for the video level and another for the audio level on all channels. This list will be very useful for checking the channel equalisation. Finally, there is the possibility of printing the spectrum of every single channel.



Automatic measurement

When connected to the printer, reports can be related to one channel or any number of preselected channels.

With just one instruction, the PROLINK-1B will allow the user to obtain printed results on all channels. The ease of use will make the testing of all TV inputs of an installation simple yet highly rewarding.



Configuration storage

The PROLINK-1B has many functions, and to simplify the operation it is possible to store the measurement configuration.

At switch on the preferred configuration is chosen from memory, making the meter very easy to use. In the most simple set-up, the user selects the channel and then reads the level directly from the back lit LCD.

Power supply

The meter is supplied with internal rechargeable sealed lead acid battery and an external A.C. mains charger unit. Carry case and coaxial adapters are also supplied as carrying standard.

SPECIFICATIONS	PROLINK-1B	Reading	
Tuning Continuous mode Channel mode Frequency range Display Resolution Synthesized freq. accuracy Memory	Digital frequency synthesis Selectable 62.5 kHz or 1MHz Channels list under request From 48.25 to 870 MHz 16 digits LCD alphanumeric display 62.5 kHz +/-32 kHz One equipment set-up memory to store-on configuration	Digital Analogue Attenuators Accuracy	0.1 dB Resolution. Out of range indicator Bar graph on display 30 dB RF manual attenuator ±2.5 dB (20 °C ±5 °C, 40% at 70% HR)
		Serial interface Histogram Spectrum Digital Levels Connection to computer	Video and audio histogram of the selected channels Espectrum of the tuned channel Video and V/A levels of tuned channels RS-232C for remote control with optional software
Level measurement Sound demodulation Detector Input Maximum input voltage Measurement ranges Low (0 dB ATT RF) High (30 dB ATT RF)	Direct reading (video, audio and video / audio ratio) AM, FM with tone proportional to signal level (with built in loud speakers) Seletable according to analogue or digital carrier 75 Ω (BNC) 130 dBμV (3.16 V) From 30 dBμV to 90 dBμV (MATV) From 60 dBμV to 120 dBμV, (Cable TV)	Power supply Battery Autonomy Protection Battery charger	Pb, 6 V - 1.2 Ah 3 hours (30 % ON/OFF) Low battery indication Internal. 10 hours approx. External mains adapter 12 V AC/DC (included)
		Mechanical features Dimensions Weight	W. 199.5 x H. 60.5 x D. 131.5 mm 1.2 kg (including battery)