

ADV1001 – Digital Satellite Meter

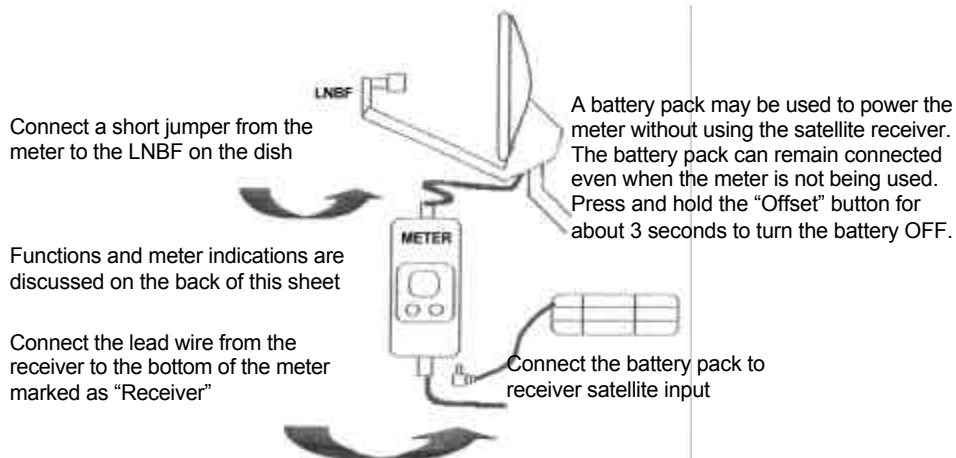
Specifications:

Input Frequency:	950 – 2150MHz
Input Level:	-25dBm – 75dBm
Insertion Loss:	3.5 dB
Impedance:	75 Ohms
Measuring Method:	Signal presentation with LED's and Pitch tone on audio speaker
Power Supply:	From receiver through coaxial cable 12-18VDC optional external 10.8VDC battery with center pin positive (+)
Power Consumption:	10mA utilizing LED's; 25mA utilizing audio speaker
Weight:	The meter only: 3 oz With battery pack: 9.5 oz
Dimensions:	The meter only: 5.75x2.15x0.85 inches With battery pack: 5.75x2.3x2.1 inches
Optional Accessories:	Leather carrying case, Rechargeable Ni-Cad Battery, AC wall charger, DC auto charger, RG-59 jumper with quick connectors.

Specifications are subject to change without notice.

Set-UP

Connect the meter to the LNBF on the dish with a short Coax jumper cable supplied. This short jumper should be connected to the top of the meter, marked "LNB". The meter can be powered by your satellite receiver or by connecting it to a battery. The battery can remain plugged into the meter while powering from a satellite receiver. To utilize the battery power when the satellite receiver is NOT connected, simply push the "OFFSET" button.



WARNING

Please don't leave the battery in HEAT too long i.e., inside car in summer, etc. This may quickly shorten the battery life.

Button Functions and LED Indications

- 1) Connect the meter according to the instructions on page 1.
- 2) Press and hold the left button, then press the right button. You will hear a tone.
- 3) Loosen the bolts on the antenna mount so the dish can be moved up and down as well as left and right.
- 4) Move the dish up and down, left and right until the tone you hear is at it's highest pitch.
- 5) When the tone is at it's highest pitch, tighten the bolts on the mount.
- 6) The LED's can also be used to peak the signal. Adjust the highest LED signal and tighten the bolts on the mount.

Powering the Meter

If you connect a satellite receiver to the meter, the LED bars will light immediately. The meter is ready to use. If you are powering the meter with an optional battery pack, the unit will not respond until you press the "Offset" button. The meter will then power up in the signal strength mode, (at maximum sensitivity). To turn the unit OFF, just press AND HOLD the "Offset" button until the LED's go out. (Battery connection only)



Signal Meter Maxed

If signal meter is at maximum level, as illustrated at right, it will be necessary to reduce the sensitivity of the meter. Press the "Offset" button once. This will attenuate the Meter and reduce the number of lit LED's. Now you can Continue aligning the dish by peaking the signal out with this attenuated or reduced signal level.



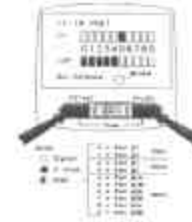
Speaker Function

By pressing the function buttons in a sequence, the audible signal will be activated. Note that the meter must be in the signal meter mode for this feature to work. Press and hold the "Offset" button and then press the "Mode" button. To cancel the audio function, press BOTH buttons at the same time. The meter will stay in the default "Signal Meter" mode.



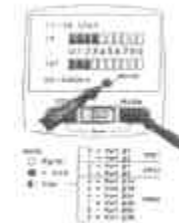
Signal Meter Function

It is not necessary to push any of the buttons to activate this function. The meter defaults to "Signal Meter" function on start up. The higher LED value, the better the signal you are receiving. The upper row of LED's indicate incoming signal in single digits, the number of lit LED bars indicate one through ten. The lower row of LED's indicate signal in tens (ten, twenty, thirty, etc) In this example the meter is indicating a signal strength of fifty six (56).



Checking Volts and mA

Press the "MODE" button once to switch the meter to a volt Meter. The "Mode Light" will come on and remain steady. The upper row of LED's indicate the voltage being supplied by the receiver or battery pack. The first LED bar indicates 11 volts. For example in this illustration four (4) bars are lit which indicates fourteen (14) volts being provided by the receiver. The bottom LED's indicate the milli-amp draw of the LNBF. Each bar is 50mA. The illustration shows 3 bars so this means 150mA (3 times 50mA).



"DISH Network" Multi-Dish Digital Switches

The meter will detect the digital message sent from the "DISH Network" receiver to the Multi-Dish switches. This function is only for DISH receivers. Indications you receive while in this MODE do NOT apply to any other satellite equipment. To set The meter for this function press the "MODE" switch until the Mode light begins to flash. At this time the upper LEDs will light and indicate the digital information being sent to the Multi-Dish switch. Look at the meter for the interpretation of the upper LED bars.

