# Digital Satellite Meter
## Specifications:

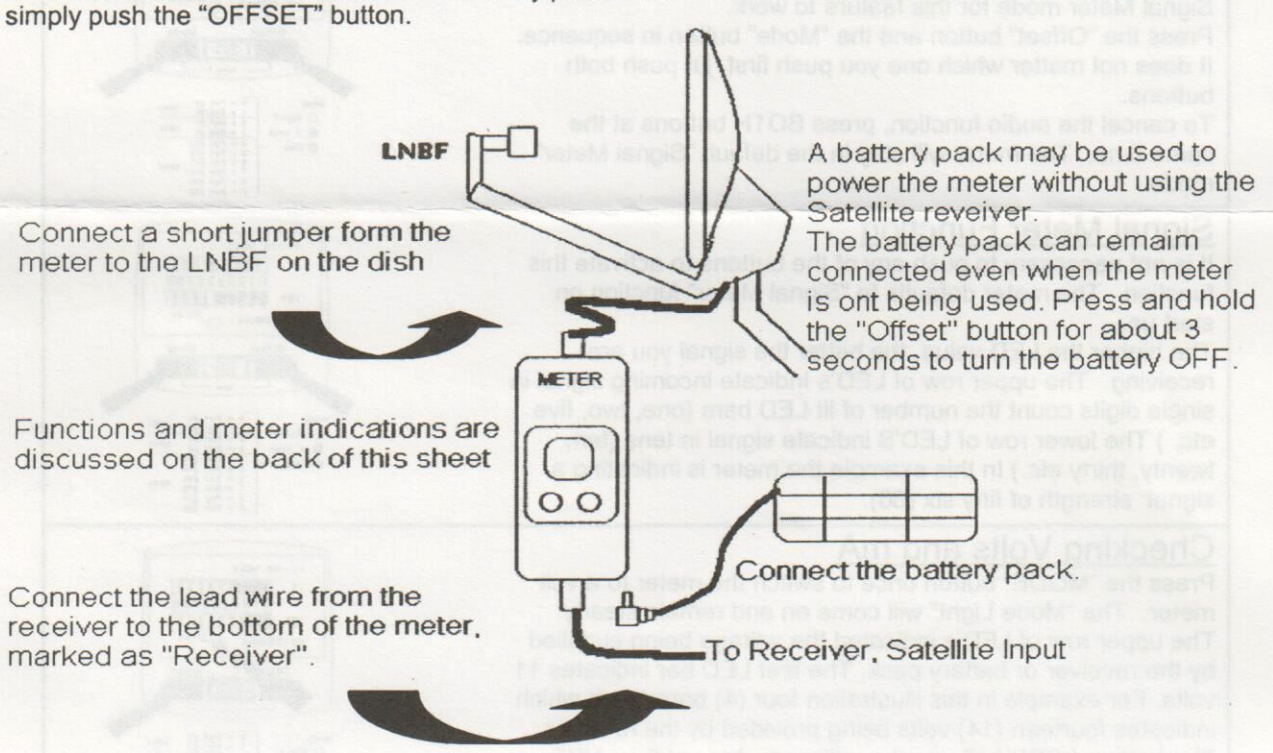
| | |
|---|---|
| Input Frequency: | 950 – 2150MHz |
| Input Level: | -25 dBm - 75dBm |
| Insertion Loss: | 3.5 dB |
| Impedance: | 75 Ohms |
| Measuring Method: | Signal presentation with LED's and Pitch tone on audio speaker |
| Power Supply: | From receiver through coaxial cable 12-18VDC or Optional external 10.8VDC battery with center pin positive (+) |
| Power Consumption: | 10mA utilizing LED's<br>25mA utilizing audio speaker |
| Weight: The meter only: | 3oz |
| With battery pack: | 9.5oz. |
| Dimensions: The meter only: | 5.75 x 2.15 x 0.85 inches |
| With battery pack: | 5.75 x 2.3 x 2.1 inches |

Accessories : Leather carrying case, Rechargeable Ni-Cads, AC wall charger,
(Optional & Chargeable) 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 of car in summer, etc. This may shorten the battery life in a short time.

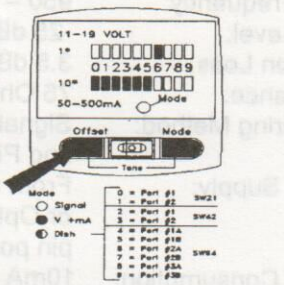
## Button Functions and LED Indications

1) Connect the meter according to the instructions on page 1.
2) Press and hold the left button, sequentially 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 & down, left & right until the tone you hear is at its highest pitch.
5) When the tone is at its 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.

Note: The 22KHz light is used to verify polarity change signal in foreign satellite receivers and has no application.

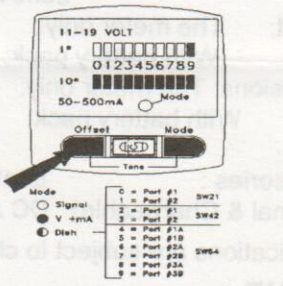
## Powering the Meter

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 till the LEDs go out. (Battery connection only)



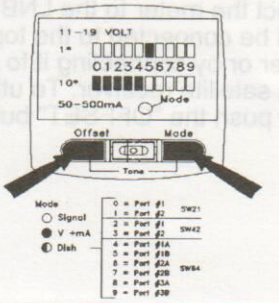

## Signal Meter Maxed

If the "Signal Meter" has maximized out, 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.



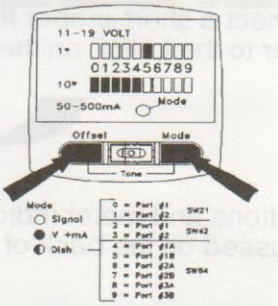

## Speaker Function

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 the "Offset" button and the "Mode" button in sequence. It does not matter which one you push first, jut push both buttons.
To cancel the audio function, press BOTH buttons at the same time. The meter will stay in the default "Signal Meter" mode.



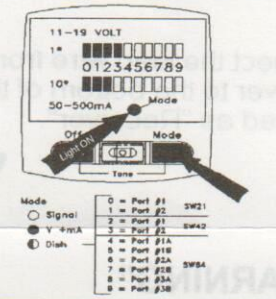

## Signal Meter Function

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 the LED value, the better the signal you are receiving. The upper row of LED's Indicate incoming signal in single digits count the number of lit LED bars (one, two, five etc. ) 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 indicated 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 that 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.