

FIRST STRIKE METERS

FS1-SE | Digital Satellite Finder



Operator's Manual

Read this manual thoroughly.

Please keep this manual handy for future reference.

[Http://www.FirstStrikeMeters.com](http://www.FirstStrikeMeters.com)

Power on/off

Hold the **Power** key until the meter “beeps” and enters the main menu. Press the **Power** key again to power off.

Enter the coordinates of your location

Enter the latitude and longitude of your location.

First, using the **Option/Local** key move the cursor to the channel number zone. Make sure the measurement zone is blank, otherwise press any numeric key to quit the measurement mode.

Then hold the **0** key for 3 seconds, the cursor will move to the longitude and latitude setting zone. As shown in Fig. 1

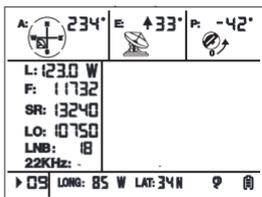


Fig.1

Using the **Option/Local** key move the cursor to “LONG” or “LAT” using **←** or **→** key, select the number digit, when “E”, “W” or “N”, “S” blinks, press any key from 0 to 9 to shift between “E” and “W” or “N” and “S”.

Press **Save/C** or hold **0** for 3 seconds to save and exit.

Manually searching for a satellite

1. Entering parameters:

In the user channel plan, move the cursor to the channel number zone, press **←** or **→** to select an empty channel plan, press the **Option/Local** key to move the cursor to L, F, SR, LO, LNB, 22KHz and enter the correct parameters one by one. when “E” or “W” blinks, press any numeric key from 0 to 9 to shift between “E” or “W”. When the cursor is at “LNB” or “22KHz”, use any numeric key to shift between the options. After entering all the parameters, press the **Save/C** key to SAVE. The cursor will move to the channel number area automatically and all the parameters are saved into the current channel successfully.

Note: As “L” is entered, the meter will calculate elevation and polarization and display on the positioning guide zone, according to the longitude & latitude that you entered, provided the satellite program is available locally.

2. Signal measurement:

Make sure the cursor is in the channel number zone, press any numeric key to launch the signal test mode. When the input port is connected with the LNB, the meter will detect LNB noise and display the signal level, indicating the LNB is OK and connected well with the meter. As Fig.2

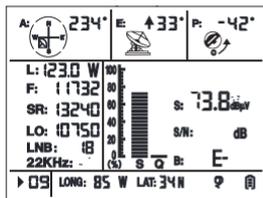


Fig.2

3. Signal searching:

Turn the antenna in the direction that the meter indicates, the tone will become louder and sharper. When the antenna is close to the satellite, the meter shows an increasing value of S/N and BER. As Fig. 3

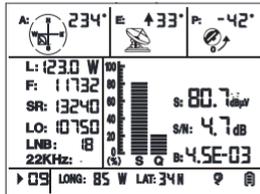


Fig.3

Continue to turn the antenna slowly in the direction that makes the S/N increase. When the value is sufficient, the meter sounds a steady tone and shows a **LOCKED** icon on the display. As Fig. 4

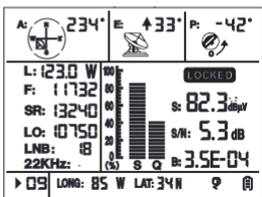


Fig.4

After locked, the meter indicates conditions of signal increasing, signal decreasing and constant signal with 3 different tones, to help locate the peak signal. Continue to tune the antenna until the meter shows the maximum S/N value, now the antenna is in the best position. As Fig. 5

Note: In the measurement mode, you can press either the or key to change the parameter of the “F” item by 1MHz step. Press the key to SAVE.

icon will blink when the battery is low, please charge the battery or connect to the STB as a power supply. When the battery is low the meter can still work but it may not be able to supply power for the LNB.

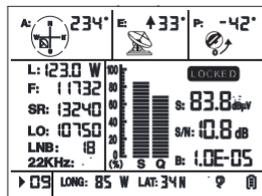


Fig.5

Using default channel plan

Hold the key until shows at the lower right corner of the screen, press or to change the channel number. Press any numeric key to start testing.

Using user channel plan

In default channel plan mode, hold the key until disappears. The meter enters the user channel plan mode. Press or to change the channel number and press any numeric key to start testing.

Copy a channel from default channel plan to the user channel plan

In the default channel plan mode, using and keys select the desired channel and press the key. The meter will display **SAVE** in the lower right and the channel is copied to the user channel plan successfully.

Modify channels in both default & user channel plan

In the default or user channel plan mode, using the  key move the cursor to the item and modify it. Press the  key to SAVE. The meter displays **SAVE** in the lower right and the channel modification is saved successfully.

In the default channel plan mode, the “L” item can't be modified.

Delete channel in the user channel plan

In the user channel plan mode, using  and  keys select the channel to be deleted and hold  for 3 seconds to delete the channel.

Restore factory settings

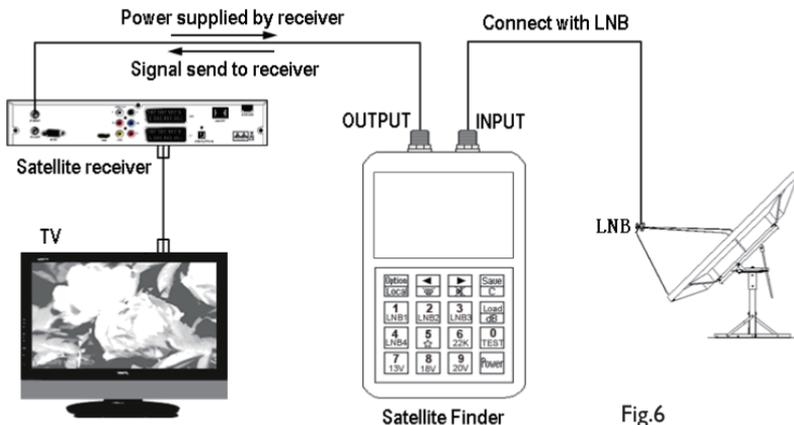
Type in 990 immediately after power on, about 5 seconds later, the meter will restart and recover to factory settings. All saved and modified contents will be lost. Please use this function carefully.

Upgrades

DragUpgrade technology makes upgrading of the meter very easy. Connect meter to PC using the provided USB cable. Press and hold the  key to power on the unit, the screen will be blank and the backlight will be turned on, meanwhile a “Removable Disk” will show on your PC. Download the latest firmware in accordance with your S/N, drag the firmware (.DAT file) into the removable disk, upgrading will be done automatically. Make sure the .DAT file is in the removable disk, then restart the meter. Please complete a factory reset after upgrading before using the meter.

Charging by satellite receiver

The input port of a satellite receiver can supply power for the meter. Connect the input port of the satellite receiver with the output port of the meter. As Fig. 6



Above configuration is used only when the battery is low.