

Introduction

- ✓ VSWR. Forward and reflected power direct digital readout, without any calibration;
- ✓ Maximum measurable power range up to 120W;
- ✓ Low insertion loss (0.3 decibels or less) structure allows it to be permanently connected;
- ✓ Build in Frequency counter.

Feature & Specification

- ✓ Frequency Range: 125 to 525MHz
- ✓ Measurable power range: 0.5 - 120W ($\pm 0.5\%$)
(Measurable power, Radio must be ANALOG)
- ✓ Maximum power: 120W
- ✓ Frequency counter: Yes (TX input must be minimum 0.5W $\pm 0.5\%$)
- ✓ VSWR: 1.00~19.9
- ✓ Insertion Loss: <0.15dB(VHF) , <0.25dB(UHF)
- ✓ Impedance: 50Ω
- ✓ Charger in: 5V (micro USB)
- ✓ Backlight: AUTO OFF
- ✓ Battery Build-in: 3.7V Li-ion Battery
- ✓ Battery Display: Yes
- ✓ Auto Power Off: 1-9 mins
- ✓ Temperature: 0°~60°C
- ✓ Interface Connectors (In/Out): N Female or UHF Female (SO-239)
- ✓ Size: 66 x 68 x 37 mm
- ✓ Weight: 220g (include battery)

N Female



SW-102

UHF Female (SO-239)



SW-102

NOTICE:

- ✓ This Power & SWR Meter is compatible to Both car radio transceiver and handheld radio, no need another adaptors;
- ✓ SW-102 is not for Digital mobile radio system (DMR System).

Power ON/OFF:

Press 2 second the [Red button] to power on or power off

MENU Display (Note: Version for up to V3.8)

No.	Mode	Adj	Default Setting	Content
1	Adjustment Forward	-99 to +99	0	Fine Tune Level %
2	Adjustment Reverse	-99 to +99	0	Fine Tune Level %
3	Adjustment Time Base	-99 to +99	0	Frequency Counter ,OSC Time Base
4	LCD DIM (Back Light Time)	0-9	1	"0" is always on, 1 min to 9 mins
5	POWER OFF	0-9	3	"0" is always on, 1 min to 9 mins

* Supplier, the product will add functionality without having to give notice

Set & Save:

1. Press MENU [Blue button]
2. Press F1 [Red button](Select 1-5 Funtion)
3. Press [Blue button] (-), [Yellow button] (+)
4. Press the [Red button]for 2 seconds
5. Press the [Blue button] to SAVE and EXIT

How to check the SWR of four Antenna:

Connect to "TX" on Radio output and Antenna to "ANT". Proper adaptor/cable is required if your device has different type of connectors.

1. Measurement VSWR: (see Picture 1)
2. SW-102 TX connect Radio RF out
3. Radio TX, SW-102 with display SWR measure data.

Do not affect the test in the following cases, there are objects nearby, placed horizontally.

How to check the output Watt of our Transceiver:

Connect to "TX" on Radio output and dummy Load to "ANT". Proper adaptor/cable is required if your device has different type of connectors.

1. Measurement Power: (see Picture 2)
2. SW-102 TX connect Radio RF out
3. SW-102 ANT connect 50 ohm Dummy Load
4. Push Radio TX, SW-102 display is Power measure data.

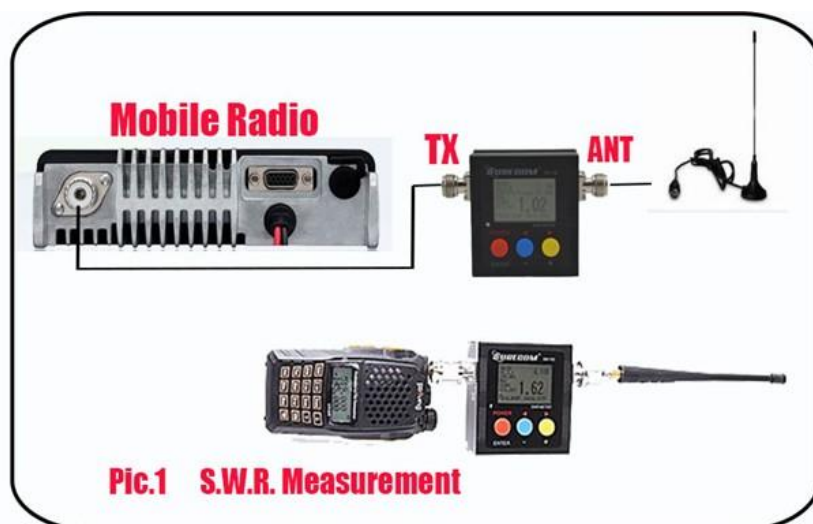
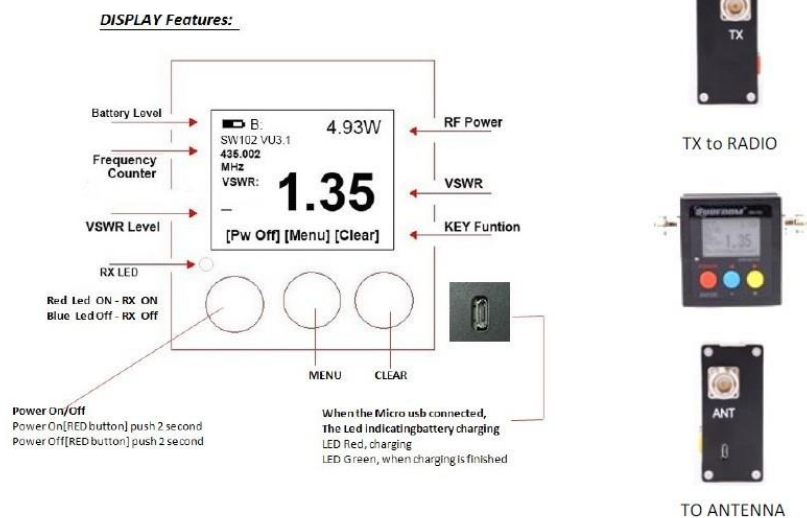
(SW-102 is not for DMR system)

Package Contents:

- ✓ 1x SURECOM SW-102-UV Power & SWR Meter [N-Female or UHF Female - SO239]
- ✓ 1x Power PSU 100-240V
- ✓ 1x Charger Cable
- ✓ 1x English User Manual

Correct use of read standing S.W.R. read





Surecom Digital VHF/UHF SWR & Power Wattmeter

SW-102
120W, 50Ω, 125 - 520MHz

