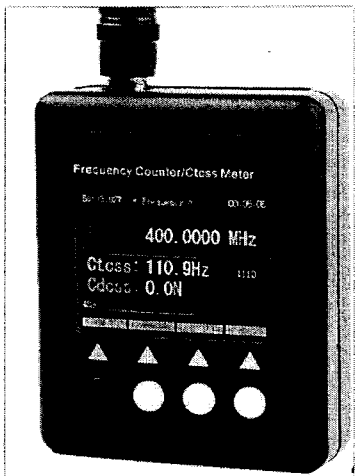


SUREGOM SF-401PLUS HAND-HELD FREQUENCY COUNTER



Feature & Specification:

- Use for : VHF/UHF walkie-talkie
- CTCSS/DCS Decoder (must be 136-174/400-520MHz)
- DMR Frequency counter
- Digital select digi 0.000 or 0.0000
- Work by TCXO (crystal) Osc.2~2.5ppm
- Auto power off 1-9minutes
- Frequency Response time: 0.2-0.5sec.
(CTCSS/CDCSS >0.5-1sec)
- Color Display 240x320 Pixels, LCD Dim level setting
- Build-in 3.7V Li-ion battery
- Net Weight: 113g
- 4 buttons all funtion control
- Charging battery LED indicator
- Frequency range : 27MHz-3000MHz

! Note : (27MHz to 100MHz It can not be guaranteed and the corresponding normal emission appliance)

USER'S MANUAL

Print in HONGKONG 2016-09-22

Congratulations on your purchase of Frequency Counter.

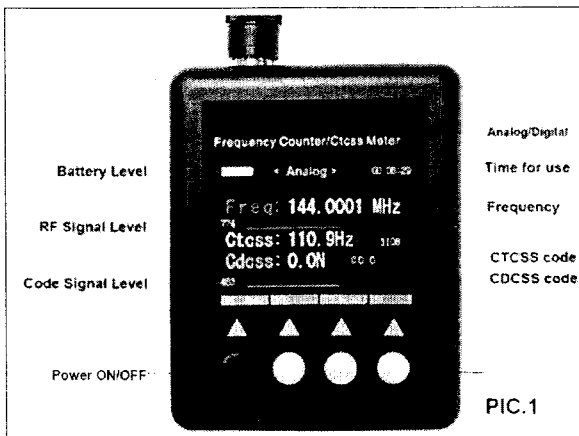
Before Operating the frequency counter, please read this manual, thoroughly. Make sure that the following accessories are supplied,with your frequency counter.

UNPACKING AND CHECKING EQUIPMENTS:

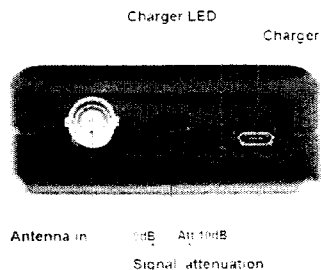
"SF-401PLUS (1), Antenna (1) ,AC Power Adapter (1),USB Charger ,Cable(1),User Manual (1) Please contact the sales agent in case of accessory missing.

Product introduction

The frequency meter capable of measuring the parameters of the frequency of the continuous carrier signal walkie-talkie with signal strength indicator. it is the tool of choice for maintenance personnel, test frequency and signal strength of wireless enthusiasts. This portable frequency counter is designed for counting continuous wave signal comes from Two-way Radio. There are easy ranges for you to choose. The ranges cover most of the frequency of the two way radios you want to measure. its four-button control is easy to use and its small size allows you to carry it anywhere you like. Work by TCXO(Temperature Compensate X'tal (crystal) Oscillator). In the range of -45 ℃ ~ 65 ℃ can reach ± 2 ~ ± 4ppm accuracy.



PIC.1



PIC.2

1.1 Power On/Off

Power On ,Press and Hold down the [black key] by 2 second
Power Off ,Press and Hold down the [black key] by 4 second of number count down to 0

1.2 Charging the battery

Plug the Power cord into adaptor , Micro usb connected SF401
The Led indicating *The RED light Charging * The Green light is Full

1.3 How to check walkietalkie Frequency .(See PIC.3)

The Radio transmitter is near the frequency counter antenna , see the signal reception conditions is zone green , you can test. (Zone Red is error)

1.4 How to check Frequency of Digital DMR Radio

Press[F3 Digital] button ,change status from analog to Digital
Note: Digital mode have 3 Decimal only.

1.5 Signal Attenuation:

when the Radio TX signal is too strong ,This optional Attenuation Less -10 dB

Cautions / Problem :

- e.g. Show 1800.000MHz ,The transmitter distance is too close to the frequency counter will affect the test results, the signal bar is red .(see Pic.1)
 - e.g. Show 0.000 MHz , The transmitter distance is too far to the frequency counter and signal is weak ,will affect the test results, the signal bar is low .(see Pic.1)
- ! Note: (27MHz to 100MHz It can not be guaranteed and the corresponding normal emission appliance)

1.6 How to restore the option :

On top MENU page, Select the [System] by bottom F3, F4 and-then Press F2 See PIC4
Select the option by key F3 and F4 , andthen Press the F2 [edit] ,change the detail by bottom F3,F4. See.PIC5 And-then Press : F1 [menu] ,F4 [Save]

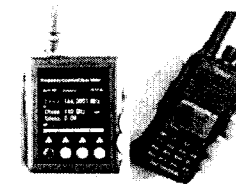
1.7 Reset factory default:

CTCSS (Hz)

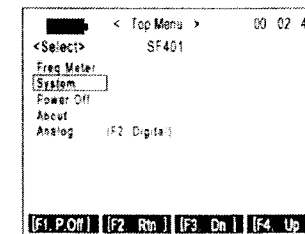
| | | | | | | | |
|------|------|-------|-------|-------|-------|-------|-------|
| 50 | 79.7 | 100 | 127.3 | 159.8 | 179.9 | 203.5 | 241.8 |
| 55 | 82.5 | 103.5 | 131.8 | 162.2 | 183.5 | 206.5 | 250.3 |
| 57 | 85.4 | 107.2 | 136.5 | 165.5 | 186.2 | 210.7 | 254.1 |
| 69.3 | 88.5 | 110.9 | 141.3 | 167.9 | 189.9 | 218.1 | |
| 71.9 | 91.5 | 114.8 | 146.2 | 171.3 | 192.8 | 225.7 | |
| 74.4 | 94.8 | 118.8 | 151.4 | 173.8 | 196.6 | 229.1 | |
| 77 | 97.4 | 123 | 156.7 | 177.3 | 199.5 | 233.6 | |

CDCSS for ANALOG mode (N code only)

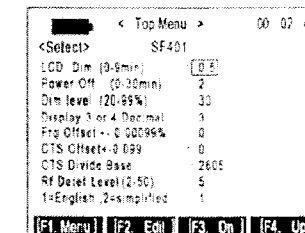
| Standard N | sf401 | Standard N | sf401 | Standard N | sf401 | Standard N | sf401 | Standard N | sf401 | Standard N | sf401 |
|------------|--------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
| 23 | 23.0 N | 115 | 115 N | | 212 N | 306 | 306 N | 431 | 431 N | 632 | 632 N |
| 25 | 25.0 N | 116 | 116 N | 223 | 223 N | 311 | 311 N | 432 | 432 N | 654 | 654 N |
| 26 | 26.0 N | | 122 N | | 225 N | 315 | 315 N | 445 | 445 N | 662 | 662 N |
| 31 | 31.0 N | 125 | 125 N | 226 | 226 N | | 325 N | 464 | 464 N | 664 | 664 N |
| 32 | 32.0 N | 131 | 131 N | 243 | 243 N | 331 | 331 N | 465 | 465 N | 703 | 703 N |
| | 36.0 N | 132 | 132 N | 244 | 244 N | | 332 N | 466 | 466 N | 712 | 712 N |
| 43 | 43.0 N | 134 | 134 N | 245 | 245 N | 343 | 343 N | 503 | 503 N | 723 | 723 N |
| 47 | 47.0 N | 143 | 143 N | | 246 N | 346 | 346 N | 506 | 506 N | 731 | 731 N |
| 51 | 51.0 N | | 145 N | 251 | 251 N | 351 | 351 N | 516 | 516 N | 732 | 732 N |
| | 53.0 N | 152 | 152 N | | 252 N | | 356 N | 532 | 532 N | 734 | 734 N |
| 54 | 54.0 N | 155 | 155 N | | 255 N | 364 | 364 N | 546 | 546 N | 743 | 743 N |
| 55 | 65.0 N | 156 | 156 N | 261 | 261 N | 365 | 365 N | 565 | 565 N | 754 | 754 N |
| 71 | 71.0 N | 162 | 162 N | 263 | 263 N | 371 | 371 N | 606 | 606 N | | |
| 72 | 72.0 N | 165 | 165 N | 265 | 265 N | 411 | 411 N | 612 | 612 N | | |
| 73 | 73.0 N | 172 | 172 N | | 266 N | 412 | 412 N | 624 | 624 N | | |
| 74 | 74.0 N | 174 | 174 N | 271 | 271 N | 413 | 413 N | 627 | 627 N | | |
| 114 | 114 N | 205 | 205 N | | 274 N | 423 | 423 N | 631 | 631 N | | |



PIC.3



PIC.4



PIC.5