

Hand-Held Smart Radio Frequency Digital/Analog Counter (FC-01)



A compact, truly pocket-sized, versatile test instrument designed for measuring any digital, on/off keying or analog signal on frequencies between **30 MHz and 2.8 GHz**. Supplied as a complete set with internal NiCd pack, AC wall charger and 7 section telescopic antenna.

Features

- # 7 digit Liquid Crystal Display
- # **Frequency counter for digital, on/off keying and analog signals with a minimum pulse width of 250 μ S.**
- # Ultra sensitive synchronous detector – 16 section bargraph to show RF signal strength (**-35dBm to 0 dBm**)
- # Two range positions – the 1 GHz position for frequencies between 30 MHz and 1 GHz and the 2.8 GHz position for frequencies between 500 MHz and 2.8 GHz.
- # **Squelch adjustment for input signals**
- # Hold switch to lock display
- # Low battery indicator
- # **Vibrating alert**
- # Low power consumption (**Average 5 hour battery life**)
- # Supplied with NiCd pack, AC wall charger and telescopic antenna (143 MHz to 460 MHz)

Specifications

- # Impedance: 50 Ohms (BNC Socket) VSWR less than 2:1
- # Frequency range: 30 MHz – 2.8 GHz

- # Sensitivity: less than 5 mV
- # Max. input: 15 dBm
- # Resolution: 10 KHz for digital signals or On/Off Keying & 1 KHz for Analog Signals
- # Timebase: Less than 1 PPM at room temperature
- # Weight: 210 g
- # Size: 80 mm high x 68 mm wide x 31 mm deep
- # Case: Stamped aluminum with black anodized finish
- # Battery: Internal 4 x AA 600 mAh NiCd pack
- # Power: 9 VDC 300 mA

Controls

- # SQL Knob – This knob turns the RF counter on and tunes the squelch up or down to set the signal strength for reception.
- # Range Switch – This should be switched to the 1 GHz position for frequencies between 30 MHz and 0.8 GHz and switched to the 2.8 GHz position for frequencies between 500 MHz and 2.8 GHz.
- # Hold Button – This holds the current display and stops the counter from counting.
- # Calibration – The calibration adjustment opening is located on the front panel of the counter. This allows access to the trimmer capacitor that provides about a 10 PPM adjustment range of the time base oscillator. This is not usually necessary but to do so read a signal of a known frequency before adjusting the trimmer for correct frequency display. If you calibrate at 4.1943 MHz or above then the counter will be more accurate.