

FREQUENCY COUNTER

- ▶ Wide frequency range
 - CH1: 10 Hz ~ 220 MHz
 - CH2: 100 MHz ~ 3 GHz
- ▶ High resolution and high speed measurement using expanding reciprocal technique
- ▶ Possible to measure the period, peak voltage
- ▶ Select the trigger level (Auto/Manual)
- ▶ Built in auto limit testing
- ▶ Save and recall function
- ▶ Interface to RS-232, GPIB (option1: GPIB)
- ▶ Soft rubber key
- ▶ Bright, easy to view display using VFD



The model **FD-853** is a RF Frequency Counter designed for system and bench use with max 9 digits resolution, featuring RS-232C and GPIB interfaces with full remote control capability. The frequency range is from 10 Hz to 3 GHz and High resolution measurement are possible.

It is also equipped with the measurement functions for period, peak voltage and auto trigger, auto limiting test. The model **FD-853** is designed for use in R&D sections and production line such as cellular phone, personal radios and other communication products.

Specifications	FD-853
CHANNEL 1 Frequency Range Resolution Sensitivity (impedance 50 Ω) Max Input Level Input Conditioning	10 Hz ~ 220 MHz 9 digits / sec 100 kHz ~ 100 MHz: ≥ -20 dBm (22 mVrms) 100 MHz ~ 220 MHz: ≥ -13 dBm (50mVrms) 5 mVrms Max Impedance: 1 MΩ or 50 Ω Coupling: AC or DC LPF: 100 kHz, switchtable Attenuator: x1 or x10
Trigger Level Auto Trigger Manual Trigger Measurements	Set level by percent of Signal level Set level by absolute voltage Period (usec), peak voltage (±5V max., 0.01V Step)
CHANNEL 2 Frequency Range Resolution Sensitivity Max Input Level	100 MHz ~ 3 GHz 9 digits/sec 100 MHz ~ 2 GHz: ≥ -32 dBm 2 GHz ~ 3 GHz: ≥ -25 dBm 5V RMS max

Analysis	Automatic limit testing
Gating time	0.1, 0.5, 1, 10 sec selectable
Time base Internal Frequency Stability External Frequency Input level	10 MHz ± 0.5 ppm TCXO 10 MHz 0.2 Vrms ~ 5Vrms@impedance 1kΩ
Interface	RS-232C, GPIB (Option 1)
Others Power Requirements Dimensions Weight Options	115/230 V AC, 50/60 Hz 100 (H.) x 210 (W.) x 350 (D.) mm Approx. 3.6 kg GPIB interface