

BK Precision Hand-Held Frequency Counter

Part Nos. [01FC103](#) and [01FC104](#)

[Back to Frequency Counter Main Page](#)

Model 103

Features	Model 103
10 digit Liquid Crystal Display	
Low power consumption (Average 6 hour battery life)	
Supplied with NiCd pack, AC wall charger and telescopic antenna	
Hold switch to lock display	
Low battery indicator	
Ultra sensitive synchronous detector 16 section bargraph to show RF signal strength	
High speed 300 MHz direct counter with 0.1 Hz resolution	
4 selectable gate speeds	

Specifications	Model 103
Frequency range:	1 MHz - 3 GHz
Weight:	210 g
Size:	80 mm high x 68 mm wide x 31 mm deep
Impedance:	50 Ohms (BNC Socket)
Case:	Stamped aluminum with black anodized finish
Battery:	Internal 4 x AA 600 mAH NiCd pack
Power:	9 VDC 300 mA
Timebase:	Less than 1 PPM at room temperature
Input Sensitivity (typical):	Amplifier: 50 Ohm
	Impedance: 50 Ohm VSWR less than 2:1
	Range: 1 MHz - 3 GHz
	Sensitivity: < 0.8mV at 100 MHz
	< 6 mV at 300 MHz
	< 7 mV at 1.0 GHz
	< 100 mV at 2.4 GHz
	Max. input: 15 dBm

Frequency Display Resolution	Model 103
Range	Gate Time (Seconds) LSD Sample Display
300 MHz	0.0625 10 Hz 300.00000 MHz
	0.25 1 Hz 300.000000 MHz
	1.0 1 Hz 300.000000 MHz
	4.0 0.1 Hz 300.0000000 MHz
3 GHz	0.0625 1000 Hz 3000.000 MHz
	0.25 100 Hz 3000.0000 MHz
	1.0 10 Hz 3000.00000 MHz
	4.0 10 Hz 3000.00000 MHz

Model 104

Features		Model 104	
10 digit Liquid Crystal Display			
Hi-Z low range			
Filter to prevent display of random noise			
Automatic hold			
Measures frequency and period			
LED back light			
Beeper			
Low power consumption (Average 6 hour battery life)			
Hold switch to lock display			
Low battery indicator			
Ultra sensitive synchronous detector 16 section bargraph to show RF signal strength			
High speed 300 MHz direct counter with 0.1 Hz resolution 4 selectable gate speeds			
Frequency Display Resolution		Model 104	
Range	Gate Time (Seconds)	LSD	Sample Display
300 MHz	0.0625	10 Hz	300.00000 MHz
	0.25	1 Hz	300.000000 MHz
	1.0	1 Hz	300.000000 MHz
	4.0	0.1 Hz	300.0000000 MHz
3 GHz	0.0625	1000 Hz	3000.000 MHz
	0.25	100 Hz	3000.0000 MHz
	1.0	10 Hz	3000.00000 MHz
	4.0	10 Hz	3000.00000 MHz
Specifications		Model 104	
Frequency range:	10 Hz - 3 GHz		
Weight:	250 g		
Size:	100 mm high x 68 mm wide x 31 mm deep		
Impedance:	1 * dual purpose BNC Socket		
	50 Ohms input for range 1 MHz to 3 GHz		
	1 Meg Ohm input for range 10 Hz to 50 MHz		
Case:	Stamped aluminum with black anodized finish		
Battery:	Internal 4 x AA 600 mAH NiCd pack		
Power:	9 VDC 300 mA		
Timebase:	Less than 1 PPM at room temperature		
Input Sensitivity (Typical):	Amplifier:	1 Meg Ohm	50 Ohm
	Impedance:	1 Meg Ohm, 30 pF	50 Ohm VSWR less than 2:1
	Range:	10 Hz – 50 MHz	1 MHz - 3 GHz
	Sensitivity:	< 10 mV at 10 Hz – 10 MHz	
		< 0.8mV at 100 MHz	
		< 20 mV at 10 MHz – 50 MHz	
		< 6 mV at 300 MHz	
		< 7 mV at 1.0 GHz	
		< 100 mV at 2.4 GHz	
Max. input:	100 Vrms	15 dBm	