"Portable but not Pocketable"

Features 3½ Digit 0.5" LCD, Battery Operated >7000 Hours Battery Life, 0.1% Basic DC accuracy, True RMS Continuity Buzzer, AC/DC Voltage ranges, Resistance ranges, Diode Test

Specifications	D	D lostina	A		
DC Voltage	Range 200m	Resolution	Accuracy		
	200m 2V	100μV 1mV			
	20V	10mV	}±(0.1% rdg + 10	dat)	
	200	100mV	}±(0.1 /6 lug + 10	ugi)	
	1000V	100111V 1V			
DC Current	Range	Resolution	Accuracy		
Do Garrent	200µA	100nA	Accuracy		
	2mA	1μΑ			
	20mA	10µA	}±(0.15% rdg +	1 dat)	
	200mA	100µA	,_(************************************	9-/	
	2000mA	1mA	$\pm (0.3\% \text{ rdg} + 1)$	dat)	
	10A	10mA	\pm (2% rdg + 3 dg		
Overload protection	:	2A(250V) fuse except 10A range.			
-		Max input on 10A range is 20A for 10 seconds.			
		Maximum Voltage burden:<1V 2000mA range.			
			200mV all other	ranges.	
AC Voltage, "True R			_		
Range	Resolution	4=11 4111	Accuracy	40111 00111	
		45Hz - 1kHz	1kHz -10kHz	10kHz-20kHz	
	400 1/				
200mV	100µV		$\pm (1.5\% \text{rdg} + 2\text{d})$	±(3%rdg+5d)	
2V	1mV	$\pm (0.5\% rdg + 2d)$	±(1.5%rdg+2d)	±(5%rdg+5d)	
			±(1.5%rdg+2d) ±(2%rdg+2d)	±(5%rdg+5d) ±(5%rdg+5d)	Or∐→
2V 20V	1mV	$\pm (0.5\% rdg + 2d)$	±(1.5%rdg+2d)	±(5%rdg+5d)	2kHz -
2V 20V 10kHz	1mV 10mV	±(0.5%rdg+2d) ±(0.5%rdg+2d)	±(1.5%rdg+2d) ±(2%rdg+2d) 45Hz - 400Hz	±(5%rdg+5d) ±(5%rdg+5d) 400Hz - 2kHz	2kHz -
2V 20V 10kHz 200V	1mV 10mV 100mV	±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d)	±(1.5%rdg+2d) ±(2%rdg+2d) 45Hz - 400Hz	±(5%rdg+5d) ±(5%rdg+5d)	2kHz -
2V 20V 10kHz 200V 750V	1mV 10mV 100mV 1V	±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d)	±(1.5%rdg+2d) ±(2%rdg+2d) 45Hz - 400Hz ±(3%rdg+5d)	±(5%rdg+5d) ±(5%rdg+5d) 400Hz - 2kHz ±(5%rdg+5d)	2kHz -
2V 20V 10kHz 200V 750V Accuracy specification	1mV 10mV 100mV 1V	±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d)	±(1.5%rdg+2d) ±(2%rdg+2d) 45Hz - 400Hz ±(3%rdg+5d)	±(5%rdg+5d) ±(5%rdg+5d) 400Hz - 2kHz ±(5%rdg+5d)	2kHz -
2V 20V 10kHz 200V 750V	1mV 10mV 100mV 1V ns apply for inpu	±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ts between 20%	±(1.5%rdg+2d) ±(2%rdg+2d) 45Hz - 400Hz ±(3%rdg+5d) and 100% of full	±(5%rdg+5d) ±(5%rdg+5d) 400Hz - 2kHz ±(5%rdg+5d)	2kHz -
2V 20V 10kHz 200V 750V Accuracy specification	1mV 10mV 100mV 1V	±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d)	±(1.5%rdg+2d) ±(2%rdg+2d) 45Hz - 400Hz ±(3%rdg+5d)	±(5%rdg+5d) ±(5%rdg+5d) 400Hz - 2kHz ±(5%rdg+5d)	2kHz -
2V 20V 10kHz 200V 750V Accuracy specification	1mV 10mV 100mV 1V ns apply for inpu	±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ts between 20%	±(1.5%rdg+2d) ±(2%rdg+2d) 45Hz - 400Hz ±(3%rdg+5d) and 100% of full	±(5%rdg+5d) ±(5%rdg+5d) 400Hz - 2kHz ±(5%rdg+5d)	2kHz -
2V 20V 10kHz 200V 750V Accuracy specification	1mV 10mV 100mV 1V ns apply for inpu Range	±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ts between 20% Resolution	±(1.5%rdg+2d) ±(2%rdg+2d) 45Hz - 400Hz ±(3%rdg+5d) and 100% of full	±(5%rdg+5d) ±(5%rdg+5d) 400Hz - 2kHz ±(5%rdg+5d)	2kHz -
2V 20V 10kHz 200V 750V Accuracy specification	1mV 10mV 100mV 1V ns apply for inpu Range 200µA	±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ts between 20% Resolution 100nA	±(1.5%rdg+2d) ±(2%rdg+2d) 45Hz - 400Hz ±(3%rdg+5d) and 100% of full	±(5%rdg+5d) ±(5%rdg+5d) 400Hz - 2kHz ±(5%rdg+5d) scale.	2kHz -
2V 20V 10kHz 200V 750V Accuracy specification	1mV 10mV 100mV 1V ns apply for inpu Range 200µA 200µA 200mA 200mA	±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ts between 20% Resolution 100nA 1μA 10μA 10μA 10μA	±(1.5%rdg+2d) ±(2%rdg+2d) 45Hz - 400Hz ±(3%rdg+5d) and 100% of full Accuracy 45Hz - 1kHz	±(5%rdg+5d) ±(5%rdg+5d) 400Hz - 2kHz ±(5%rdg+5d) scale.	2kHz -
2V 20V 10kHz 200V 750V Accuracy specification	1mV 10mV 100mV 1V ns apply for inpu Range 200μA 200μA 200mA 200mA 200mA	±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ts between 20% Resolution 100nA 1μA 10μA 10μA 10μA 1mA	±(1.5%rdg+2d) ±(2%rdg+2d) 45Hz - 400Hz ±(3%rdg+5d) and 100% of full Accuracy 45Hz - 1kHz }±(1%rdg + 2dgf	±(5%rdg+5d) ±(5%rdg+5d) 400Hz - 2kHz ±(5%rdg+5d) scale.	2kHz -
2V 20V 10kHz 200V 750V Accuracy specification	1mV 10mV 100mV 1V ns apply for inpu Range 200µA 200µA 200mA 200mA 10A	±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ±(0.5%rdg+2d) ts between 20% Resolution 100nA 1μA 10μA 10μA 10μA	±(1.5%rdg+2d) ±(2%rdg+2d) 45Hz - 400Hz ±(3%rdg+5d) and 100% of full Accuracy 45Hz - 1kHz	±(5%rdg+5d) ±(5%rdg+5d) 400Hz - 2kHz ±(5%rdg+5d) scale.	2kHz -

Overload Protection			
	24 (250\/	\fuse	excent

2A (250V)fuse except 10A range Input on 10A range is 20A for 10 seconds

Resistance

Range	Resolution	Accuracy
200R	100mR	-
2kR	1R	
20kR	10R	$\pm (0.15\% rdg + 1dgt)$
200kR	100R	
2000kR	1kR	±(0.2%rdg + 1dgt)
20MR	10kR	$\pm (1\% \text{rdg} + 2\text{dgt})$

Maximum Permissible

Input Voltage: 250V DC or AC rms Full Scale Voltage: 200R, and 2kR: <0.5V 20kR, 200kR, 2000kR and 20MR: >0.7V

Diode Test The 20kR range has sufficient full-scale voltage to turn on a silicon

diode at a current of approximately 100µA.

Continuity Test When the continuity tester is selected an internal audible "Bleeper"

sounds when the resistance between the test probes is less than

approximately 50R.

Mains powered version available (Black Star 3210MP)

Specifications as battery model