50,000 Count Premium DMM









The 5300 Series handheld DMM is the most advanced digital multimeter available in this price range. These meters incorporate a special 50,000 count integrated circuit for high-accuracy (0.025%) basic accuracy, high-reliability design. Measure AC Volts (True RMS AC, AC + DC), Resistance, Capacitance and Frequency, in addition to dB, Duty Cycle, Pulse Width, Power Line Disturbances and Temperature. These meters also feature fuse and battery access without breaking a calibration seal, great for ISO facilities. All models offer Peak Hold, Hold, Relative Mode and Backlight.

- ■Precision 50,000 count instruments
- ■0.025% Basic DCV accuracy (Models 5380 and 5390)
- ■True RMS reading
- Large LCD display provides easy readability, all test parameters in clear view.
- ■Best value of any DMM
- **■CE** safety approved

Features models							
	5390	5380	5370	5360			
Basic Functions		•					
Basic Accuracy	0.0	0.1%					
Voltage (Best Resolution)		750VAC/1000VDC					
,		(100µV)					
Current (Best Resolution)		10AAC/DC		10AAC/DC			
		(10nA)		(1µA)			
Frequency	√		√				
Temperature Probe			√				
Duty Cycle	√	√					
Event Counter	√						
Backlight	1	√	1				

JPC	cificatio	1113			<u>models</u>		
<u> </u>		5390	5380	5370			
AC VOLTAGE	<u> </u>	'					
(Auto/Manual F	Ranging, True RMS)						
Modes: AC or	AC+DC, selectable						
Accuracy at gre	eater than 10% of range,	50,000 counts at Full Scale:					
Ranges	DC to	I kHz to	4 kHz to	10 kHz to	30 kHz to		Input
	l kHz	4 kHz	10 kHz	30 kHz	50 kHz	Resolution	Impedance
500 mV	0.3%R+30D	1%R+3D	5%R+30	D No	t specified	10μV	10 MΩ/100 p
							or I $G\Omega$
5V	0.3%R+30D	1%R+3D	2%R+30	D 2%R+30D	3%R+30D	100 μV	II MΩ/100 p
50V	0.3%R+30D	1%R+30D	2%R+30	D 2%R+30D	3%R+30D1 mV	10 MΩ/100 pF	
500V	0.3%R+30D	1%R+30D	2%R+30	D 2%R+30D	3%R+30D10 mV	10 MΩ/100 pF	
750V	0.3%R+30D		Not specifi	ed		100 mV	10 MΩ/100p

model 5360 Accuracy at greater than 10% of range, 5,000 counts at Full Scale: Ranges 20 kHz to DC to 1kHz L kHz to 5 kHz to 10kHz to Input 5 kHz 10 kHz 20 kHz 30 kHz Resolution Impedance 500 mV 1%R+3D 4%R+3D Not specified 10 MΩ/100 pF 100μV 2%R+30D 2%R+3D 3%R+3D 5V 1%R+3D 1%R+3D Im V 11 MΩ/100 pF 50V 1%R+3D 1%R+3D 2%R+3D 2%R+3D 3%R+3D I0m√ 10 MΩ/100 pF 3%R+3D 10 MΩ/100 pF 500V 1%R+3D 1%R+3D 2%R+3D 2%R+3D 100 mV 750V 1%R+3D Not specified ΙV 10 MΩ/100pF Crest Factor: 3

Crest Factor: 6

Specifications

5390 5380 5370

models 5360

Unless otherwise stated, accuracy specifications apply from 18°C to 28°C. Specifications stated as n%R+nD, mean \pm (n% of reading +n least significant digits). Accuracy specifications stated as n%FS, mean \pm (n% of Full Scale)

DC VOLTAGE (Auto Manual Rang	ing)				N. X.	Input
Ranges			Accuracy		Resolution	Impedance
500 mV	0.025%R+2D	0.025%R+2D	0.05%R+2D	0.1%R+2D	10 μV	10 MΩ or
						I GΩ*
5V 0.025%R+2D	0.025%R+2D	0.025%R+2D	0.05%R+2D	0.1%R+2D	11 ΜΩ	The state of
50V	0.025%R+2D	0.025%R+2D	0.05%R+2D	0.1%R+2D	I mV	10 ΜΩ
500V	0.025%R+2D	0.025%R+2D	0.05%R+2D	0.2%R+2D	10 mV	10 ΜΩ
1000V	0.025%R+2D	0.025%R+2D	0.05%R+2D	0.3%R+2D	100 mV	10 ΜΩ
*(10 MΩ only on 5360)						

AC/DC VOLTAGE PROTECTION

Overvoltage Protection	±1100 V DC + AC Peak
Transient Protection	6kV for 10 μs

DC CURRENT (Auto/Manual Ranging) Max Burden					
Ranges		Accuracy	Resolution	Voltage	
500μΑ	0.2%R+5D	Not Available	10 nA	700 mV	
5 mA	0.2%R+2D	0.2%R+2D	100 nA	700 mV	
50mA	0.05%R+2D	0.2%R+2D	IμA	700 mV	
500 mA	0.2%R+2D	0.2%R+2D	10 μΑ	1.5 V	
10 A	0.5%R+2D	0.3%R+2D	I mA	500 mV	

			me	odels		
	5390	5380	5	370		
AC CURRE	NT (Auto/Manual Ra	inging, True RMS) A	AC or AC + DC			
Accuracy a	t greater than 10% of	range, 50,000 cou	ınts at Full Scale:			
		I kHz to	10 kHz to	20 kHz to		Input
Ranges	DC to 1kHz	10 kHz	20 kHz	30 kHz	Resolution	Impedance
500 μA	0.75%R+50D	0.75%R+50D	1.0%R+50D	3.0%R+50D	10 nA	700 mV
5 mA	0.6%R+50D	0.6%R+50D	1.0%R+50D	2.0%R+50D	100 nA	700 mV
50 mA	0.6%R+50D	0.6%R+50D	1.0%R+50D	2.0%R+50D	IμA	700 mV
500 mA	0.7%R+50D	0.7%R+50D	Not specified		10 μA	1.5 V
10 A	1% of FS		Not specified		I mA	500 mV
Crest Facto	or: 6					

	model					
	5360					
AC CURRENT						
Accuracy at gi	eater than 10% of i	range, 5,000 co	ounts at Full Scale:			
Ranges	DC to 5 kHz	Resolution	Max Burden Voltage			
5 mA	1.0%R+3D	ΙμA	700 mV			
50 mA	1.0%R+3D	10 μΑ	700 mV			
500 mA	1.0%R+3D	100 mA	1.5 V			
10 A	1% of FS	10 mA	500 mV			
Crest Factor:	3					

						model	S
	5390	5380	5	370	53	60	
RESISTANCE	(Auto/Manual	Ranging)					
				Accur	асу		
Ranges						Resolution	Test Current
500 Ω	0.07%	R+5D		0.1%R-	+5D	10 mΩ	I mA
5 kΩ	0.07%	R+2D		0.1%R-	+2D	100 mΩ	100 μA
50 kΩ	0.07%	R+2D		0.1%R-	+2D	ΙΩ	10 μΑ
500 kΩ	0.07%	R+2D		0.1%R-	+2D	10 Ω	IμA
5 MΩ	0.3%F	R+2D		0.3%R-	+2D	100 Ω	100 μΑ
50 MΩ	1.0%F	R+2D		1.0%R-	+2D	IkΩ	10 μΑ

5390	5380	5370	5360			
ANCE (Auto/Manual Rang	ging)					
Accuracy		Measurement Resolution	Measurement Current	Max TIme		
1.0%R+2D	1.0%R+2D	10 pF	100 nA	0.5 sec		
1.0%R+2D	1.0%R+2D	100 pF	IμA	0.5 sec		
1.0%R+2D	1.0%R+2D	I nF	10 μΑ	0.5 sec		
1.0%R+2D	1.0%R+2D	10 nF	100 μA	0.5 sec		
1.0%R+2D	1.0%R+2D	100 nF	I mA	1.5 sec		
1.0%R+2D	2.0%R+2D	IμF	I mA	3 sec/ mF		
1.0%R+2D	2.0%R+2D	10 μF	ImA	3 sec/ mF		
	ANCE (Auto/Manual Rang Accuracy 1.0%R+2D 1.0%R+2D 1.0%R+2D 1.0%R+2D 1.0%R+2D 1.0%R+2D 1.0%R+2D	ANCE (Auto/Manual Ranging) Accuracy 1.0%R+2D 1.0%R+2D 1.0%R+2D 1.0%R+2D 1.0%R+2D 1.0%R+2D 1.0%R+2D 1.0%R+2D 1.0%R+2D 2.0%R+2D 1.0%R+2D 2.0%R+2D	5390 5380 5370 ANCE (Auto/Manual Ranging) Accuracy Measurement Resolution 1.0%R+2D 1.0%R+2D 10 pF 1.0%R+2D 1.0%R+2D 100 pF 1.0%R+2D 1.0%R+2D 1 nF 1.0%R+2D 1.0%R+2D 10 nF 1.0%R+2D 1.0%R+2D 100 nF 1.0%R+2D 2.0%R+2D 1 μF	S390 S380 S370 S360 ACCURACY Measurement Resolution Measurement Current 1.0%R+2D 1.0%R+2D 10 pF 100 nA 1.0%R+2D 1.0%R+2D 100 pF 1 μA 1.0%R+2D 1.0%R+2D 1 nF 10 μA 1.0%R+2D 1.0%R+2D 10 nF 100 μA 1.0%R+2D 1.0%R+2D 100 nF 1 mA 1.0%R+2D 1.0%R+2D 1 μF 1 mA 1.0%R+2D 2.0%R+2D 1 μF 1 mA		

		mod				
	5390 5	380 5370 5	360			
FREQUENCY (Autoranging)						
Range: 0.6 Hz to 500 kHz						
Accuracy: ±(0.03% rdg+1 digit)						
	500 mV	5V to 500 V	750 V	10 A		
Ranges	(5390, 5370)	500 μA to 500 mA		(5390, 5370)		
0.6Hz to 5kHz	2% of FS	2% of FS	100 V	2 A		
5 kHz to 50 kHz	5% of FS	5% of FS	250 V	Not specified		
50 kHz to 500 kHz	Not specified	10% of FS	Not specified			

Accessories

SUPPLIED:

Test Leads, Spare Fuses, Instruction Manual

OPTIONAL:

TL-130A General Purpose DMM Kit

TP-5300 Platinum Temperature Probe (for 5370)

AK-5350 Calibration Software (AK-5300 Hardware required)

AK-5300 Communications Hardware & LabView® drivers

Common Features

CONTINUITY - Threshold: 10Ω to 20Ω

DIODE TEST - Measures forward voltage drop of diode 0 to 1.999V

dB MEASUREMENT - 5390 and 5370 - Measures value relative to a reference from 1 to 9999 Ω , 5380 at 600Ω

PEAK HOLD - Selection: Peak + or Peak- (surge or sag) Acq. Time: < 1 rms

DUTY CYCLE: 5390, 5370, 5360-Modes: Selectable %+ ,or %- Min

EVENT COUNTER (Model 5390) - Range: 0 to 99999 (Totalize) MIN PULSE DURATION: 2 µs

PULSE WIDTH (Model 5390) Modes: Selectable +, - Min. Pulse Width: 20 μ s Max Pulse Period: 12.5 μ s

TEMPERATURE (Model 5370) Using Model TP-5300 Probe (Optional)

RANGE: -200° to +800°C

Computer Interface: RS232 capability built-in. Requires AK-5300

GENERA

Display: 50,000 count resolution LCD, 0.55" (14mm) digit height,

34 segment analog bargraph

Measurement Rate: 2/sec., 20/sec - bargraph

Power: 9V (NEDA 1604) Battery Life: 500 hrs Dimensions: 1.57 x 3.23 x 7.44" (40 x 82 x 189mm)

Weight: 14 oz (397g)

Three Year Warranty

