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 $\ensuremath{\mathsf{RMS}}$ 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	125%	0.05%	0.1%
Voltage (Best Resolution)		750VAC/1000VDC		
		(10µV)		(100µV)
Current (Best Resolution)		10AAC/DC		
		(10nA)		(1µA)
Frequency			V	
Temperature Probe			V	
Duty Cycle			V	√
Event Counter	\checkmark			
Backlight	\checkmark	V	V	

Specifications				models		```	
		5390	5380	5370			
AC VOLTAGE							
(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	1 kHz to	4 kHz to	10 kHz to	30 kHz to		Input
	1 kHz	4 kHz	10 kHz	30 kHz	50 kHz	Resolution	Impedance
500 mV	0.3%R+ 30D	1%R+ 3D	5%R+ 30D	No	t specified	10µV	10 MΩ/100 pl
							or 1 G Ω
5V	0.3%R+ 30D	1%R+ 3D	2%R+ 30D	2%R+ 30D	3%R+ 30D	100 µV	11 MΩ/100 pł
50V	0.3%R+ 30D	1%R+ 30D	2%R+ 30D	2%R+ 30D	3%R+ 30D1 mV	10 MΩ/100 pF	
500V	0.3%R+ 30D	1%R+ 30D	2%R+ 30D	2%R+ 30D	3%R+ 30D10 mV	10 MΩ/100 pF	
	0.3%R+ 30D		Not specifie			100 mV	10 MΩ/100pF

Crest Factor: 6

					model		
	53	360					
Accuracy at greate	er than 10% of range, 5,000) counts at Full Scale:					
Ranges	DC to 1kHz	1 kHz to	5 kHz to	10kHz to	20 kHz to		Input
		5 kHz	10 kHz	20 kHz	30 kHz	Resolution	Impedance
500 mV	1%R+ 3D	4%R+ 3D		Not specified		100µV	10 MΩ/100 pF
5V	1%R+ 3D	1%R+ 3D	2%R+ 30D	2%R+ 3D	3%R+ 3D	1 m V	11 MΩ/100 pF
50V	1%R+ 3D	1%R+ 3D	2%R+ 3D	2%R+ 3D	3%R+ 3D	10m√	10 MΩ/100 pF
500V	1%R+ 3D	1%R+ 3D	2%R+ 3D	2%R+ 3D	3%R+ 3D	100 mV	10 MΩ/100 pF
750V	1%R+ 3D			Not specified		1 V	10 MΩ/100pF
Crest Factor: 3							

Specificat	ions			models		
	5390	5380	5370	5360		
Unless otherwise stated, accuracy	specifications apply from 18°	C to 28°C. Specifications	stated as n%R+ nD, mean :	± (n% of reading + n least sig	gnificant digits). Accuracy s	pecifications stated a
n%FS, mean ± (n% of Full Scale)						
DC VOLTAGE (Auto Manual Rang	ging)	0			2 1	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 1 GΩ*
5V 0.025%R+ 2D	0.025%R+ 2D	0.025%R+ 2D	0.05%R+ 2D	0.1%R+ 2D	11 MΩ	- N
50V	0.025%R+ 2D	0.025%R+ 2D	0.05%R+ 2D	0.1%R+ 2D	1 mV	10 MΩ
500V	0.025%R+ 2D	0.025%R+ 2D	0.05%R+ 2D	0.2%R+ 2D	10 mV	10 MΩ
1000V	0.025%R+ 2D	0.025%R+ 2D	0.05%R+ 2D	0.3%R+ 2D	100 mV	10 MΩ
* (10 M Ω only on 5360)						
AC/DC VOLTAGE PROTECTION						
Overvoltage Protection	± 1100 V DC + A	AC Peak				
Transient Protection	6kV for 10 μs					
DC CURRENT (Auto/Manual Ran	ging)					Max Burden
Ranges				Accuracy	Resolution	Voltage
500µA		0.2%R+ 5D		Not Available	10 nA	700 mV
5 mA		0.2%R+ 2D		0.2%R+ 2D	100 nA	700 mV

			m	odels		
	5390	5380	53	370		
AC CURRE	ENT (Auto/Manual Ra	anging, True RMS) A	AC or AC + DC			
Accuracy a	at greater than 10% of	range, 50,000 cou	unts at Full Scale:		_	
		1 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	1.0%R+ 50D	2.0%R+ 50D	3.5%R+ 50D	10 nA	700 mV
5 mA	0.6%R+ 50D	0.75R+ 50D	2.0%R+ 50D	3.0%R+ 50D	100 nA	700 mV
50 mA	0.6%R+ 50D	0.75%R+ 50D	2.0%R+ 50D	3.0%R+ 50D	1 μA	700 mV
500 mA	0.7%R+ 50D	0.75%R+ 50D	Not specified		10 µA	1.5 V
10 A	1% of FS		Not specified		1 mA	500 mV
Crest Facto	or: 6					

0.05%R+ 2D

0.2%R+ 2D

0.5%R+ 2D

	model				
	5360				
AC CURRENT					
Accuracy at greater than 10% of range, 5,000 counts at Full Scale:					
Ranges	DC to 5 kHz	Resolution	Max Burden Voltage		
5 mA	1.0%R+ 3D	1 μΑ	700 mV		
50 mA	1.0%R+ 3D	10 µA	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	3				

1 μΑ

10 µA

1 mA

700 mV

1.5 V

500 mV

						model	<u>s</u>
	5390	5380	5	370	53	60	
RESISTANCE (Auto/Manual Ranging)							
				Accura	асу		
Ranges						Resolution	Test Current
500 Ω	0.07%	R+ 5D		0.1%R+	5D	10 mΩ	1 mA
5 kΩ	0.07%	R+ 2D		0.1%R+	2D	100 m Ω	100 µA
50 k Ω	0.07%	R+ 2D		0.1%R+	2D	1Ω	10 µA
500 kΩ	0.07%	R+ 2D		0.1%R+	2D	10 Ω	1 μA
5 MΩ	0.3%F	R+ 2D		0.3%R+	2D	100 Ω	100 µA
50 MΩ	1.0%F	R+ 2D		1.0%R+	2D	1 kΩ	10 µA

			m	odels	
	5390 53	80	5370	5360	
CAPACIT	ANCE (Auto/Manual Ranging)				
Range	Accuracy		Measurement Resolution	Measurement Current	Max TIme
50 nF	1.0%R+ 2D	1.0%R+ 2D	10 pF	100 nA	0.5 sec
500 nF	1.0%R+ 2D	1.0%R+ 2D	100 pF	1 µA	0.5 sec
5 pF	1.0%R+ 2D	1.0%R+ 2D	1 nF	10 µA	0.5 sec
50 µF	1.0%R+ 2D	1.0%R+ 2D	10 nF	100 µA	0.5 sec
500 μF	1.0%R+ 2D	1.0%R+ 2D	100 nF	1 mA	1.5 sec
5000 μF	1.0%R+ 2D	2.0%R+ 2D	1 μF	1 mA	3 sec/ mF
50 mF	1.0%R+ 2D	2.0%R+ 2D	10 µF	1 mA	3 sec/ mF

Accessories

Test Leads, Spare Fuses, Instruction Manual

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

SUPPLIED :

OPTIONAL:

0.2%R+ 2D

0.2%R+ 2D

0.3%R+ 2D

	5390 5	380 5370 5	<u>mod</u> 360	<u>els</u>
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	

Common Features

50mA

10 A

500 mA

CONTINUITY - Threshold: 10Ω to 20Ω	Computer Interface: RS232 capability built-in. Requires AK-5300
DIODE TEST - Measures forward voltage drop of diode 0 to 1.999V	GENERAL
dB MEASUREMENT - 5390 and 5370 - Measures value relative to a reference from 1 to 9999 Ω , 5380 at 600 Ω	Display: 50,000 count resolution LCD, 0.55" (14mm) digit height,
PEAK HOLD - Selection: Peak + or Peak- (surge or sag) Acq. Time: < 1 rms	34 segment analog bargraph
DUTY CYCLE: 5390, 5370, 5360-Modes: Selectable %+ ,or % Min	Measurement Rate: 2/sec., 20/sec - bargraph
EVENT COUNTER (Model 5390) - Range: 0 to 99999 (Totalize)	Power: 9V (NEDA 1604) Battery Life: 500 hrs
MIN PULSE DURATION: 2 µs	Dimensions: 1.57 x 3.23 x 7.44" (40 x 82 x 189mm)
PULSE WIDTH (Model 5390) Modes: Selectable + , - Min. Pulse Width: 20µs Max Pulse Period: 12.5 µs	Weight: 14 oz (397g)
TEMPERATURE (Model 5370) Using Model TP-5300 Probe (Optional)	Three Year Warranty
RANGE: -200° to + 800°C	Three Tear Warrancy

