## 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	025%	0.05%	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		√	√	

Specifications					models		
		5390	5380	5370			
AC VOLTAGE		·					
(Auto/Manual	Ranging, True RMS)						
Modes: AC or	AC+DC, selectable						
Accuracy at gr	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+30D	No	t specified	10µV	10 MΩ/100 pF
							or I GΩ
5V	0.3%R+30D	1%R+3D	2%R+30D	2%R+30D	3%R+30D	100 µV	11 MΩ/100 pF
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	
750V	0.3%R+30D		Not specifie	d		100 mV	10 MΩ/100pF
50 kHz to 10	0 kHz (5V, 50 V, 500 V ra	inges): ±6% FS typical	•				ł
Crest Factor: 6	á	5					

				model		
53	360					
than 10% of range, 5,000	counts at Full Scale:					
DC to 1kHz	I kHz to	5 kHz to	10kHz to	20 kHz to		Input
	5 kHz	10 kHz	20 kHz	30 kHz	Resolution	Impedance
1%R+3D	4%R+3D		Not specified		100µV	10 MΩ/100 pF
1%R+3D	1%R+3D	2%R+30D	2%R+3D	3%R+3D	l m V	11 MΩ/100 pF
1%R+3D	1%R+3D	2%R+3D	2%R+3D	3%R+3D	I0m√	10 MΩ/100 pF
1%R+3D	1%R+3D	2%R+3D	2%R+3D	3%R+3D	100 mV	10 MΩ/100 pF
1%R+3D			Not specified		I V	10 MΩ/100pF
	than 10% of range, 5,000 DC to 1kHz 1%R+3D 1%R+3D 1%R+3D 1%R+3D	5 kHz           1%R+3D         4%R+3D           1%R+3D         1%R+3D           1%R+3D         1%R+3D           1%R+3D         1%R+3D           1%R+3D         1%R+3D	than 10% of range, 5,000 counts at Full Scale:           DC to 1kHz         1 kHz to         5 kHz to           1%R+3D         5 kHz         10 kHz           1%R+3D         4%R+3D         1           1%R+3D         1%R+3D         2%R+30D           1%R+3D         1%R+3D         2%R+3D           1%R+3D         1%R+3D         2%R+3D	In the ID% of range, 5,000 counts at Full Scale:           DC to IkHz         I kHz to         5 kHz to         10kHz to         20 kHz           I%R+3D         4%R+3D         Not specified           I%R+3D         1%R+3D         2%R+3D         2%R+3D           I%R+3D         1%R+3D         2%R+3D         2%R+3D           I%R+3D         1%R+3D         2%R+3D         2%R+3D           I%R+3D         1%R+3D         2%R+3D         2%R+3D	5360           than 10% of range, 5,000 counts at Full Scale:           DC to 1kHz         1 kHz to         5 kHz to         10kHz to         20 kHz to         20 kHz to           DC to 1kHz         1 kHz to         5 kHz         10 kHz         20 kHz         30 kHz         30 kHz         30 kHz         10 kHz         10 kHz         30 kHz         10 kHz         10 kHz         10 kHz         10 kHz         30 kHz         10 kHz	5360           than 10% of range, 5,000 counts at Full Scale:           DC to 1kHz         1 kHz to         5 kHz to         10kHz to         20 kHz to         Resolution           DC to 1kHz         1 kHz to         5 kHz         10 kHz         20 kHz         30 kHz         Resolution           1 1%R+3D         4%R+3D         10 kHz         20 kHz         30 kHz         Resolution           1 1%R+3D         1%R+3D         2%R+30D         2%R+3D         3%R+3D         1m V           1 1%R+3D         1%R+3D         2%R+3D         2%R+3D         3%R+3D         10m√           1 1%R+3D         1%R+3D         2%R+3D         2%R+3D         3%R+3D         10m√

Specificati	ons			models	
	5390	5380	5370	5360	

Unless otherwise stated, accuracy specifications apply from 18°C to 28°C. Specifications stated as nR+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 Ran	ging)					Input
Ranges	00		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 MΩ	
50V	0.025%R+2D	0.025%R+2D	0.05%R+2D	0.1%R+2D	I 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 MΩ only on 5360)						
AC/DC VOLTAGE PROTECTION	1					1
Overvoltage Protection	±1100 V DC + A	AC Peak				
Transient Protection	6kV for 10 μs					
	· · ·					
DC CURRENT (Auto/Manual Ran	iging)					Max Burden
Ranges				Accuracy	Resolution	Voltage
50004		0.20/0 + 5D		Not Available	10 - 1	700

Kanges		Accuracy	Resolution	voitage
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
50mA	0.05%R+2D	0.2%R+2D	I μΑ	700 mV
500 mA	0.2%R+2D	0.2%R+2D	10 µA	1.5 V
10 A	0.5%R+2D	0.3%R+2D	l mA	500 mV

			me	odels		
	5390	5380	53	370		
AC CURRE	ENT (Auto/Manual Ra	nging, True RMS) A	AC or $AC + DC$			
Accuracy a	t greater than 10% of	range, 50,000 cou	ints 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	ΙμΑ	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 CURREN	Г					
Accuracy at g	reater than 10% of	range, 5,000 co	ounts at Full Scale:			
Ranges	DC to 5 kHz	Resolution	Max Burden Voltage			
5 mA	1.0%R+3D	ΙμΑ	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					

						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	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 µA
500 kΩ	0.07%	R+2D		0.1%R-	-2D	l0 Ω	ΙμΑ
5 MΩ	0.3%R	+2D		0.3%R-	-2D	100 Ω	100 µA
50 MΩ	1.0%R	+2D		I.0%R+	-2D	l kΩ	10 µA

			m	odels	
	5390 5	380	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	ΙμΑ	0.5 sec
5 pF	1.0%R+2D	1.0%R+2D	l 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	I mA	1.5 sec
5000 µF	1.0%R+2D	2.0%R+2D	ΙμF	I mA	3 sec/ mF
50 mF	1.0%R+2D	2.0%R+2D	10 µF	ImA	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<sup>®</sup> drivers

SUPPLIED:

OPTIONAL:

	5390 5	380 5370 5	<u>mod</u> 360	<u>els</u>
FREQUENCY (Autoranging)				
Range: 0.6 Hz to 500 kHz				
Accuracy: $\pm (0.03\% rdg + 1 digit)$				
	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

CONTINUITY - Threshold: $10\Omega$ to $20\Omega$	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 $\Omega$ , 5380 at 600 $\Omega$	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	Infect rear warrancy



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