50,000 Count **Premium DMM**









5380

5370

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							
	5390	5380	5370	5360			
Basic Functions		•					
Basic Accuracy	0.0)25%	0.05%	0.1%			
Voltage (Best Resolution)		750VAC/1000VE	OC .	750VAC/1000VDC			
		(10µV)		(100µV)			
Current (Best Resolution)		10AAC/DC		10AAC/DC			
		(10nA)		(1µA)			
Frequency	V		√				
Temperature Probe			√				
Duty Cycle	V		√	√			
Event Counter	V						
Backlight	√	V	1				

Spec	cificatior	ıs			models		
		5390	5380	5370			
AC VOLTAGE		•					
(Auto/Manual Ra	anging, True RMS)						
Modes: AC or A	AC + DC, selectable						
Accuracy at grea	ater than 10% of range, 5	0,000 counts at Full Scale:					
Ranges	DC to	1 kHz to	4 kHz	to 10 kHz to	30 kHz to		Input
	1kHz	4 kHz	10 kH	lz 30 kHz	50 kHz	Resolution	Impedance
500 mV	0.3%R+30D	1%R+3D	5%R+3	OD No	t specified	10μV	10 MΩ/100 pF
							or 1 G Ω
5V	0.3%R+30D	1%R+3D	2%R+3	0D 2%R+30D	3%R+30D	100 μV	11 MΩ/100 pF
50V	0.3%R+30D	1%R + 30D	2%R+3	0D 2%R+30D	3%R+30D1 mV	10 MΩ/100 pF	
500V	0.3%R+30D	1%R + 30D	2%R+3	0D 2%R+30D	3%R+30D10 mV	10 MΩ/100 pF	
750V	0.3%R+30D		Not spec	ified		100 mV	10 MΩ/100pF
50 kHz to 100	kHz (5V, 50 V, 500 V rar	nges): ±6% FS typical					
Crest Factor: 6							

	53	560			model		
Accuracy at greater	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	1m 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	•	•		•			

Specifications

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 significant digits). Accuracy specifications stated as n%FS, mean ±(n% of Full Scale)

DC VOLTAGE (Auto Manual Ranging)					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
						1 GΩ*
5V 0.025%R+2D	0.025%R+2D	0.025%R+2D	0.05%R+2D	0.1%R+2D	11 ΜΩ	1
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 MΩ only on 5360)						All Con-

AC/DC VOLTAGE PROTECTION

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

DC CURRENT (Auto/Manual Ranging) Max Burde					
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	1 μΑ	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	1 mA	500 mV	

	<u>models</u>						
Į.	5390	5380	5	370			
AC CURREI	NT (Auto/Manual Ra	nging, True RMS) A	AC or AC + DC				
Accuracy at	greater than 10% of	range, 50,000 cou	ınts 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 μΑ	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 μΑ	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 Factor	: 6						

<u>model</u> 5360						
AC CURREN						
Accuracy at gi	eater than 10% of	range, 5,000 co	ounts at Full Scale:			
Ranges 5 mA	DC to 5 kHz	Resolution	Max Burden Voltage			
50 mA	1.0%R+3D 1.0%R+3D	1 μA 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	S
	5390	5380	5	370	53	60	
RESISTANCE	(Auto/Manual	Ranging)					
				Accura	асу		
Ranges						Resolution	Test Current
500 Ω	0.07%F	R+5D		0.1%R+	+5D	10 mΩ	1 mA
5 kΩ	0.07%F	R+2D		0.1%R+	+2D	100 mΩ	100 μΑ
50 kΩ	0.07%F	R+2D		0.1%R+	+2D	1 Ω	10 μΑ
500 kΩ	0.07%F	R+2D		0.1%R+	-2D	10 Ω	1 μΑ
5 ΜΩ	0.3%R	+2D		0.3%R+	+2D	100 Ω	100 μΑ
50 MΩ	1.0%R	+2D		1.0%R+	+2D	1 kΩ	10 µA

	Illoueis					
	5390	5380	5370	5360		
CAPACITA	NCE (Auto/Manual Ran	ging)				
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 μΑ	0.5 sec	
5 pF	1.0%R+2D	1.0%R+2D	1 nF	10 μΑ	0.5 sec	
50 μF	1.0%R+2D	1.0%R+2D	10 nF	100 μΑ	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	1mA	3 sec/ mF	

	models					
	5390 5	380 5370 5	360			
FREQUENCY (Autoranging)						
Range: 0.6 Hz to 500 kHz						
Accuracy: $\pm (0.03\% \text{ rdg} + 1 \text{ digit})$						
	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: <1rms

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

EVENT COUNTER (Model 5390) - Range: 0 to 99999 (Totalize)

MIN PULSE DURATION: 2 us

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

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

