

## **Excellent Integrated System Limited**

Stocking Distributor

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# 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	0.025%	0.05%	0.1%		
Voltage (Best Resolution)	750VAC/1000VDC (10µV)	750VAC/1000VDC (100µV)			
Current (Best Resolution)	10AAC/DC (10nA)	10AAC/DC (10nA)	10AAC/DC (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 greater than 10% of range, 50,000 counts at Full Scale:									
Ranges	DC to 1kHz	1 kHz to 4 kHz	4 kHz to 10 kHz	10 kHz to 30 kHz	30 kHz to 50 kHz	Resolution			
500 mV	0.3%R+30D	1%R+3D	5%R+30D	Not specified		10µV			
5V	0.3%R+30D	1%R+3D	2%R+30D	2%R+30D	3%R+30D	100 µV			
50V	0.3%R+30D	1%R+3D	2%R+30D	2%R+30D	3%R+30D	10 MΩ/100 pF			
500V	0.3%R+30D	1%R+3D	2%R+30D	2%R+30D	3%R+30D	10 MΩ/100 pF			
750V	0.3%R+30D	Not specified			100 mV	10 MΩ/100pF			
50 kHz to 100 kHz (5V, 50 V, 500 V ranges): ±6% FS typical									
Crest Factor: 6									

#### 5360

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

## 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 Ranging)								
Ranges			Accuracy	Resolution	Input Impedance			
500 mV	0.025%R+2D	0.025%R+2D	0.05%R+2D	0.1%R+2D	10 $\mu$ V 10 M $\Omega$ or 1 G $\Omega$ *			
5V 0.025%R+2D	0.025%R+2D	0.025%R+2D	0.05%R+2D	0.1%R+2D	11 M $\Omega$			
50V	0.025%R+2D	0.025%R+2D	0.05%R+2D	0.1%R+2D	1 mV			
500V	0.025%R+2D	0.025%R+2D	0.05%R+2D	0.2%R+2D	10 mV			
1000V	0.025%R+2D	0.025%R+2D	0.05%R+2D	0.3%R+2D	100 mV			
(*10 M $\Omega$ only on 5360)								
AC/DC VOLTAGE PROTECTION								
Overvoltage Protection	$\pm$ 1100 V DC + AC Peak							
Transient Protection	6kV for 10 $\mu$ s							
DC CURRENT (Auto/Manual Ranging)								
Ranges			Accuracy	Resolution	Max Burden Voltage			
500 $\mu$ A		0.2%R+5D		Not Available	10 nA			
5 mA		0.2%R+2D		0.2%R+2D	100 nA			
50mA		0.05%R+2D		0.2%R+2D	1 $\mu$ A			
500 mA		0.2%R+2D		0.2%R+2D	10 $\mu$ A			
10 A		0.5%R+2D		0.3%R+2D	1 mA			
AC CURRENT (Auto/Manual Ranging, True RMS) AC or AC + DC								
Accuracy at greater than 10% of range, 50,000 counts at Full Scale:								
Ranges	DC to 1 kHz	1 kHz to 10 kHz	10 kHz to 20 kHz	20 kHz to 30 kHz	Input Impedance			
500 $\mu$ A	0.75%R+50D	1.0%R+50D	2.0%R+50D	3.5%R+50D	10 nA			
5 mA	0.6%R+50D	0.75R+50D	2.0%R+50D	3.0%R+50D	100 nA			
50 mA	0.6%R+50D	0.75%R+50D	2.0%R+50D	3.0%R+50D	1 $\mu$ A			
500 mA	0.7%R+50D	0.75%R+50D	Not specified		10 $\mu$ A			
10 A	1% of FS		Not specified		1 mA			
Crest Factor: 6								
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 $\mu$ A	700 mV					
50 mA	1.0%R+3D	10 $\mu$ A	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								
RESISTANCE (Auto/Manual Ranging)								
Accuracy								
Ranges			Resolution	Test Current				
500 $\Omega$	0.07%R+5D	0.1%R+5D	10 m $\Omega$	1 mA				
5 k $\Omega$	0.07%R+2D	0.1%R+2D	100 m $\Omega$	100 $\mu$ A				
50 k $\Omega$	0.07%R+2D	0.1%R+2D	1 $\Omega$	10 $\mu$ A				
500 k $\Omega$	0.07%R+2D	0.1%R+2D	10 $\Omega$	1 $\mu$ A				
5 M $\Omega$	0.3%R+2D	0.3%R+2D	100 $\Omega$	100 $\mu$ A				
50 M $\Omega$	1.0%R+2D	1.0%R+2D	1 k $\Omega$	10 $\mu$ A				
CAPACITANCE (Auto/Manual Ranging)								
Range		Accuracy		Measurement Resolution	Measurement Current			
50 nF		1.0%R+2D	1.0%R+2D	10 pF	100 nA			
500 nF		1.0%R+2D	1.0%R+2D	100 pF	1 $\mu$ A			
5 pF		1.0%R+2D	1.0%R+2D	1 nF	10 $\mu$ A			
50 $\mu$ F		1.0%R+2D	1.0%R+2D	10 nF	100 $\mu$ A			
500 $\mu$ F		1.0%R+2D	1.0%R+2D	100 nF	1 mA			
5000 $\mu$ F		1.0%R+2D	2.0%R+2D	1 $\mu$ F	1 mA			
50 mF		1.0%R+2D	2.0%R+2D	10 $\mu$ F	1 mA			
FREQUENCY (Autoranging)								
Range: 0.6 Hz to 500 kHz								
Accuracy: $\pm$ (0.03%rdg+1 digit)								
Ranges	500 mV (5390, 5370)	5V to 500 V 500 $\mu$ A to 500 mA	750 V	10 A (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 $\Omega$								
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 $\Omega$ , 5380 at 6000								
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 $\mu$ s								
PULSE WIDTH (Model 5390) Modes: Selectable +, - Min. Pulse Width: 20 $\mu$ s Max Pulse Period: 12.5 $\mu$ s								
TEMPERATURE (Model 5370) Using Model TP-5300 Probe (Optional)								
RANGE: -200° to +800°C								
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								
Computer Interface: RS232 capability built-in. Requires AK-5300								
GENERAL								
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								