

# High-Performance, Rugged, Versatile, Handheld DMMs

**HHM11**  
**£53**



**HHM11 Rugged Multimeter**  
1999 counts resolution  
DC volt accuracy:  $\pm 1.2\%$   
AC volt accuracy:  $\pm 2.0\%$   
DC current accuracy:  $\pm 2.5\%$   
Resistance:  $\pm 1.5\%$   
Diode test, transistor, battery test



Measures Temperature.

Type K Beaded Wire T/C Included.

**HHM12**  
**£60**



**HHM12 Rugged Multimeter/Thermometer**  
1999 counts resolution  
DC Volt accuracy  $\pm 1.2\%$   
AC Volt accuracy  $\pm 2.0\%$   
Resistance:  $\pm 1.0\%$   
Diode test, capacitance, continuity, phase indicator, frequency, temperature measurement  
Type K thermocouple

All models shown with test leads included.

Measures Temperature.

Type K Beaded Wire T/C Included.

**HHM16**  
**£66**



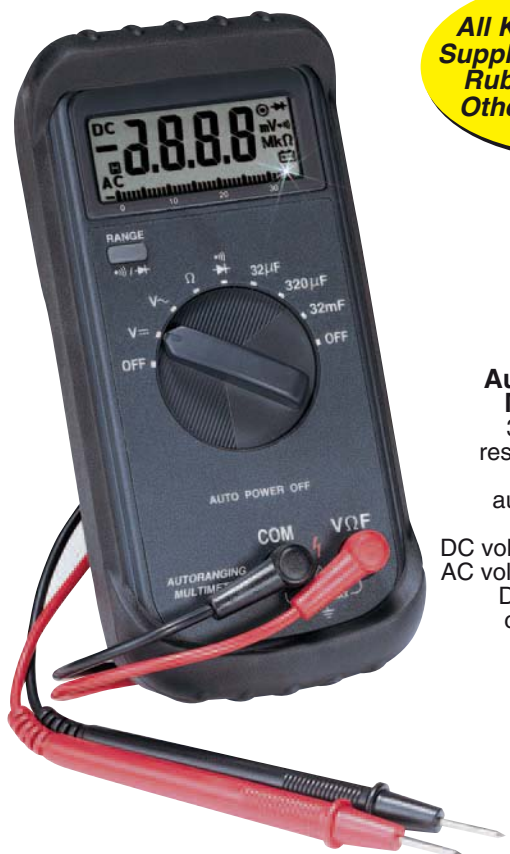
**HHM16 Auto-Ranging Multimeter/Thermometer**  
4300 counts resolution provides:  
Max/Min record, continuity, diode test, resistance  
DC volt accuracy:  $\pm 0.25\%$   
AC volt accuracy:  $\pm 0.75\%$   
DC current accuracy:  $\pm 2.0\%$   
AC current accuracy:  $\pm 2.5\%$   
 $^{\circ}\text{C}/^{\circ}\text{F}$  switchable temperature measurement

All K Type Models Supplied with Yellow Rubber Boot; All Others Are Black.

**HHM13**  
**£33**



**HHM13 Auto-Ranging Multimeter**  
3200 counts resolution Analog bargraph, auto power off, overrange  
DC volt accuracy:  $\pm 1.2\%$   
AC volt accuracy:  $\pm 2.0\%$   
Diode test, capacitance, continuity



HMM14  
£91



**HMM14 True RMS Multimeter**  
4½ digits 20000 counts Ac Volt frequency response up to 20 kHz  
**DC Volt:** 0-200 mV/2/20/200/1000 V ±0.05%  
**AC Volt:** 0-200mV/2/20/200/750 V ±1.5% 50~20 kHz  
**DC current:** 2/20/200 mA ±0.5% 10 A ±2%  
**AC current:** 0-200 mA/2/20/200 mA ±1% 10 A ±2.5%  
**Resistance:**  
0-20/200 1%  
2/20/200/2000 k ±0.2%  
20 M ±2%  
**Continuity:** < 40 ±20  
Diode test function  
1000 Vdc/750 Vac  
overload protection  
500 V overload protection in Diode, , Continuity  
10 A fused protection

**Thermocouple Included!**

Temperature models include a free 1 m (40") type K insulated beaded wire thermocouple with subminiature connector and wire spool caddy (one per channel). **Order a Spare! Model No. SC-GG-K-30-36, \$15**

HMM15  
£76



All K Type Models Supplied with Yellow Rubber Boot; All Others Are Black.



**HMM15 Rugged Multimeter**  
3¾ digits 3999 counts  
**DC Volt:** 0-400 mV/4/40/400/1000 V ±0.5%  
**AC Volt:** 0-400 mV/4/40/400/750V ±1.5%  
**DC current:** 0-40 m/400 mA/10 A ±1.5%  
**AC current:** 0-40 m/400 mA/10 A ±2.0%  
**Resistance:** 0-400 /4/40/400/4000 k /40 M /4000 m ±1%  
**Capacitance:** 0-4 nF/40 nF/400 nF/4µF/400 µF ±5%  
**Inductance:** 0-4 m/40 mH/400 mH/4 H/40 H ±5%  
**Frequency:** auto-ranging up to 1 MHz±0.5%  
Diode test function  
**Continuity:** <40 ±20  
1000 Vdc/750 Vac  
overload protection  
500V overload protection in Diode, , Hz, Continuity  
hFE test function  
Logic probe function



Extra Set HMM-TL general use test lead set, high quality design, \$5.

HMM29  
£92



Measures Temperature.



Type K Beaded Wire T/C Included.

**HMM29 Rugged Multimeter**  
4300 counts circulating record for MAX/MIN AVG and normal  
**Provides:** AUTO-HOLD, Relative and Relative Set  
Auto power off to preserve battery life  
**DC Volt:** 0-430 mV/4.3/43/430/1000 V ±0.25%  
**AC Volt:** 0-430 mV/4.3/43/430/750 V ±0.75~1.5% (50 Hz~20 KHz)  
**DC current:** 0-430 µA/43 mA±0.5% 430 mA/10 A±2%  
**AC current:** 0-430 µA/43 mA ±1% 430 mA/10A±2.5%  
**Resistance:**  
0-430 /4.3/43/430 k/4300 k /43 M ±0.3%  
**Capacitance:** 0-4.3/43/430 nF/4.3 µF/430 µF±5%  
**Inductance:**  
0-4.3/43/430 mH/4.3/43 H ±5  
**Frequency:** 430 Hz/4.3/43/430 kHz ±1%  
**Temperature:**  
-20~1370°C -4~2372°F ±2~3%  
Comes with beaded type K thermocouple  
Diode test function  
Continuity: < 50  
1000 Vdc/750 Vac  
overload protection  
500 V overload protection in Diode, , Hz, Continuity  
Logic probe tester

Comes with protective rubber boot with tilt stand, set of safety test leads, 9 V alkaline battery, Type K beaded wire thermocouple (temperature models only) and complete operator's manual.

**Ordering Example:** HMM29, rugged DMM with Type K T/C, includes test leads and rubber boot, £92.

# Versatile High-Performance Handheld DMMs



- ✓ GS-Mark EN61010-1 Approval, Over-Voltage Category II 600 Vdc/Vac; Pollution Degree II
- ✓ HHM26 and HHM28 Have RS232 Interface
- ✓ Safety Input Jacks
- ✓ Logic Probe Tester: HHM15, HHM20, HHM23
- ✓ Temperature Measurement Models: HHM19, HHM21
- ✓ Accuracy: Stated Accuracy at 23 ± 5°C < 75% RH
- ✓ Battery Life: 200 Hours
- ✓ Dimensions: 192 H x 91 W x 52.5 mm D (7.6 x 3.6 x 2.1")



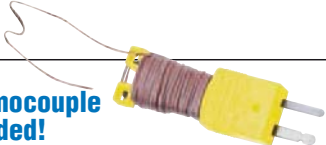
**HHM17**  
**£80**

**HHM17 Auto-Ranging Multimeter**  
3999 counts resolution  
Provides: MEM, READ, REL, HOLD, MAX/MIN  
DC Volt: accuracy ±0.25%  
Resistance: ±0.3%  
Frequency: ±0.05%



**HHM18**  
**£50**

**HHM18 Capacitance Meter**  
1999 counts resolution  
Zero adjustment  
Resistance: ±0.3%  
Capacitance: ±0.5%  
Frequency: 0.1%  
HHM18-TL Test leads for HHM18



**Thermocouple Included!**  
Temperature models include a free 1 m (40") Type K insulated beaded wire thermocouple with subminiature connector and wire spool caddy (1 per channel). **Order a Spare!**  
Model No. SC-GG-K-30-36, \$15.



**HHM22**  
**£59**

**HHM22 Auto-Ranging Multimeter**  
3200 counts resolution  
Reading of Data-Hold function  
DC Volt: accuracy ±0.3%  
Resistance: ±0.3%



**HHM23**  
**£52**

**HHM23 Rugged Multimeter**  
1999 counts resolution  
Reading of Max/Data-Hold function  
DC Volt: accuracy ±0.35%  
Resistance: ±0.4%; Frequency: ±0.1%



**Extra Set HHM-TL general use test lead set. High quality design, \$5.**

*Comes with protective rubber boot with tilt stand, set of safety test leads, 9 V alkaline battery, Type K beaded wire thermocouple (temperature models only) and complete operator's manual.*

Measures Temperature.



**HMM24**  
£50

**HMM24 Rugged Multimeter**  
1999 counts resolution  
Reading of Max/Data-Hold function  
DC Volt: accuracy  $\pm 0.35\%$   
Resistance:  $\pm 0.4\%$   
Capacitance:  $\pm 2\%$ ; Frequency:  $\pm 0.1\%$



**HMM19C**  
for °C  
**HMM19F**  
for °F  
£64

**HMM19 Rugged Multimeter**  
1999 counts resolution  
Reading of Max/Data Hold function  
DC Volt Accuracy:  $\pm 0.35\%$   
Resistance:  $\pm 0.4\%$   
Frequency: 0.1%  
Comes with Type K beaded thermocouple

Measures Temperature



**HMM21**  
£70

**HMM21 Auto-Ranging Multimeter**  
4300 counts circulating record for Max/Min/Avg and normal  
Provides: AUTO-HOLD, Relative and Relative Set  
Auto power-off to conserve battery life  
DC Volt: Accuracy  $\pm 0.25\%$   
Resistance:  $\pm 0.3\%$   
Comes with Type K beaded thermocouple

With RS232 Interface, Software, and Cable.



**HMM26**  
£76

**HMM26 Auto-Ranging Multimeter**  
2500 Counts Backlit LCD Display  
RS232C Interface with microprocessor-based DMM  
DCV basic accuracy up to  $\pm 0.25\%$   
ACV basic accuracy up to  $\pm 0.75\%$



**HMM27**  
£76

**HMM27 Auto-Ranging Multimeter**  
2500 Counts Backlit LCD Display  
Resistance accuracy up to  $\pm 0.3\%$  with microprocessor-based DMM  
Frequency resolution up to 0.001 Hz  
Frequency accuracy up to  $\pm 0.05\%$   
DCV basic accuracy up to  $\pm 0.25\%$   
ACV basic accuracy up to  $\pm 0.75\%$

With RS232 Interface, Software, and Cable.



**HMM28**  
£92

**HMM28 Auto-Ranging Multimeter**  
2500 counts, Backlit LCD Display  
RS-232C Interface with microprocessor-based DMM  
Frequency resolution up to 0.001 Hz  
Frequency accuracy up to  $\pm 0.05\%$   
DCV basic accuracy up to  $\pm 0.25\%$   
ACV basic accuracy up to  $\pm 0.75\%$

Comes with protective rubber boot with tilt stand, set of safety test leads, 9 V alkaline battery, Type K beaded wire thermocouple (temperature models only) and complete operator's manual.

# Every Type of Handheld DMMs

HMM30  
£80



## HMM30 LCR Multimeter

3½ digits 1999 counts

**Resistance:** 20 /200 /  
2 k /20 k /200 k /2 M /20 M

### Accuracy:

20 : ± (1.0% rdg + 10 digits)  
200 : ± (0.3% rdg + 3 digits)  
2 k to 2 M : ± (0.3% rdg + 1 digit)  
20 M : ± (2.0% rdg + 2 digits)

### Capacitance:

200 pF/2 nF/20 nF/  
200 nF/2 µF/20 µF/  
200 µF/2000 µF

### Accuracy:

200 pF to 200 nF:  
± (1.0% rdg + 3 digits)  
2 µF to 200 µF:  
± (2.0% rdg + 3 digits)

2000 µF to ≤ 1000 µF:  
± (3.0% rdg + 3 digits)  
> 1000 µF:  
± (5.0% rdg + 5 digits)

### Inductance:

200 µH/ 2 mH/20 mH/  
200 mH/2 H/20 H/200 H

### Accuracy:

200 µH to 200 mH:  
± (3.0% rdg + 3 digits)  
2 H to 200 H:  
± (5.0% rdg + 10 digits)

## To Order (Specify Model Number)

	Model No.	HHM11	HHM12	HHM13	HHM26	HHM27	HHM28	HHM17	HHM18
	<b>Price</b>	<b>£53</b>	<b>£60</b>	<b>£33</b>	<b>£76</b>	<b>£76</b>	<b>£92</b>	<b>£80</b>	<b>£50</b>
F E A T U R E	Display Counts	1999	1999	3200	2500	2500	2500	3999	1999
	Range Auto/Manual	M	M	A	A	A	A	A	M
	Input Impedance M	1	10	10	10	10	10	10	
	Analog bargraph			•				•	
	Relative				•	•	•	•	
	Logic Test								
	Temperature		C/F						
	Data/Hold				•	•	•	•	•
	Max/Min Record							•	
	Max/Hold								•
DCV	Capacitance		•	•		•	•	•	•
	Frequency		•			•	•	•	•
	Continuity		•	•	•	•	•	•	•
	Diode test	•	•	•	•	•	•	•	•
	Transistor gain (hFE)	•						•	
	RS232C				•		•		
	Basic Accuracy, %	1.2	1.2	.8	0.25	0.25	0.25	0.25	
	Max Resolution, µV	1000	1000	100	100	10	10	100	
	Basic Accuracy, %	2	2	2	0.75	0.75	0.75	0.75	
	Max Resolution, µV	100	100	100	100	100	100	100	
Frequency Response, Hz	50 to 500	50 to 500	50 to 500	50 to 500	50 to 500	50 to 500	50 to 20 K		
DCA	Basic Accuracy, %	2.5			0.75	0.75	0.75	0.5	
	Max Resolution, µA	1000			0.1	0.1	0.1	0.1	
ACA	Basic Accuracy, %				1.5	1.5	1.5	1.0	
	Max Resolution, µA				0.1	0.1	0.1	0.1	
CX	Frequency Response				50 to 500	50 to 500	50 to 500	50 to 500	
	Basic Accuracy, %		4.0	5		3	3	2	0.5
LX	Max Resolution, pF			.01		1	1	1	0.1
	Max Cap, µF		2 K	32 m		25	25	40	20 m
	Basic Accuracy, %				0.3	0.3	0.3	0.3	0.3
Ω	Max Resolution, µH								
	Max H				25	25	25	40	20
	Basic Accuracy, %	1.5	1.5	1.5	0.3	0.3	0.3	0.3	0.3
Hz	Max Resolution, m	100	100	100	100	100	100	100	10
	Max m	2	2000	32	25	25	25	40	20
	Basic Accuracy, %		.5	1.5		0.05	0.05	0.05	0.1
C° F°	Max Resolution, Hz		1.0			0.001	0.001	0.01	10
	Max Frequency, MHz		100 K			5	5	700 K	15
	Basic Accuracy, %		2						
C° F°	Max Resolution		1°C/°F						
	Range °C		-20~400						
	Range °F		-4~752						

Ordering Example: HHM16, DMM with Type K beaded wire thermocouple, \$98.

## Accessories for Multimeters

Model No.	Price	Description
HHM-TL	£3.40	Extra general test lead set
HHM18-TL	3.40	Extra test lead set for HHM18
SC-GG-K-30-36	10	Extra Type K beaded wire thermocouple
MN1604	2	Extra 9V alkaline battery



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