

Handheld Thermometer



Series	HHM290	TPD Series	HH67	HH11A	HH74K	HH303/HH308	HHM63F	HH-21	HH-22	HH-23	HH501DK
Input Type	Dual K T/C multimeter pyrometer	Integral probe	Integral	K	K	J, K, or K only	K T/C DMM	J, K, T	Dual J, K	J, K, T	K
No. Inputs*	2	1	N/A	1/2	1	2	1	1	2	2	4
C/F Switchable	✓	✓	✓	✓	✓	✓	°F only	✓	✓	✓	✓
Resolution	0.1°, 1°	1°F	1°F	0.1°, 1°	0.1°	0.1°, 1°	0.1°, 1°	0.1°	0.1°	0.1°	0.1°, 1°
Temperature Measurement Accuracy	2% rdg or 2°C	Up to 1°C		±0.3% rdg +1°C	±0.3% rdg +1°C	±0.1% rdg +0.7°C ±0.3% rdg +1°C	±2%	0.1% rdg ±0.6°C	0.1% rdg ±0.6°C	0.1% rdg ±0.6°C	0.3% rdg
Maximum Temperature Range	-40 to 1300°C -40 to 2400°F	Various ranges and models	-50° to 150°C 58° to 302°F	-50° to 1300°C -59° to 1562°F	-59° to 850°C -59 to 1562°F	-200 to 1370°C -328 to 2498°F	-4 to 2498°F	-200 to 1372°C	-200 to 1372°C	-200 to 1372°C	-50 to 1300°C -58 to 1999°F
Display	5 digits	Up to 3½ digits	3½ digits	3 digits	3½ digits	4 digits	2500 counts	5 digits	5 digits	5 digits	1999 counts
Backlit LCD	✓						✓				✓
Battery Life	100 Hrs	300 Hrs	300 Hrs	200 Hrs	300 Hrs	120 Hrs	200 Hrs	100 Hrs	100 Hrs	100 Hrs	100 Hrs
Battery Type	6 "AA"	Button	3 "AAA"	9 V	3 "AAA"	9 V	4 "AAA"	9 V	9 V	9 V	9 V
Input Connection	SMP		Integral probe	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP
Delta T1-T2	✓			✓					✓	✓	✓
Data Hold	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
Min/Max	✓		Max	✓	✓	✓			✓	✓	Max
Relative						✓					
Hi/Lo Limits with Beeper											
Other Features	Infrared pyrometer with laser circle/dot sighting CE	Built-in temp probe low cost CE		Offset adjustment open T/C LED CE	Magnet hanger CE	Low cost CE	Auto ranging CE	Protective rubber boot optional calibrator module CAL certificate CE	Protective rubber boot optional calibrator module CAL certificate CE	Protective rubber boot optional calibrator module CAL certificate CE	T1 to T3 T1 to T4 T1 to T2 4 K T/C inputs CE
Included Accessories	Rubber holster batteries 2 T/C lead set	Protective cases	ACC kit	CAL certificate rubber boot		ACC kit	ACC kit	ACC kit CAL certificate	ACC kit CAL certificate	ACC kit CAL certificate	ACC kit
Page No.	L-9	L-17	L-21	L-22	L-23	L-24	L-25	L-27	L-27	L-27	L-29
Price	£164	from £11.50	£37	£43.50	£37	from £57	£68	£111	£144	£152	£66

Comes with a beaded wire thermocouple probe (1 per channel).

Note: All DMM's come with safety test leads.

* Number of Temperature Inputs

✓ = has this feature
ACC = Accessory

T/C = Thermocouple
DMM = Digital Multimeter

SMP = Subminiature Connector

Selection Guide



Series	HH147	HH-25	HH-26	868/ 869	450	871A	872A	HHM31	HHM32	HH66R
Input Type	J, K, T, E, R, S, N	J, K, or T	J, K, or T	RTD ¼ wire	J, K, T, E Pt, TH	Dual K T/C Ω	Dual J T/C	K T/C multimeter	K T/C multimeter	J, K, T, E, R, S, N
No. Inputs*	4	1	1	1	1	2	2	2	1	2
C/F Switchable	✓	°F or °C versions	HH26K & HH26J only	°F only/ °C only	✓	✓	✓	✓	°F only	✓
Resolution	0.1°, 1°	0.1°, 1°	0.1°, 1°	0.1°, 1°	0.1°, 1°	0.1°, 1°	0.1°, 1°	1°	1°	0.1°
Temperature Measurement Accuracy	±0.1% rdg	Up to 0.4% rdg +0.6°C	Up to 0.4% rdg +0.6°C	±1°F	±0.1%	±0.25°C rdg +1.8°F	±0.25°C rdg +1.8°F	±0.3% rdg	±2% rdg +1°C	±0.05% rdg
Maximum Temperature Range	-100 to 1700°C -148 to 3092°F	-80 to 1100°C -120 to 1999°F	-80 to 1100°C -120 to 1999°F	-128 to 593°C -199 to 1100°F	Type K -220 to 1372°C	-40 to 1370°C -40 to 1999°F	-40 to 760°C -40 to 1370°F	-50 to 1300°C -58 to 1999°F	-5 to 2375°F	-250 to 1767°C 418 to 3212°F
Display	4 digits	3½ digits	3½ digits	3½ digits	4 digits	3½ digits	3½ digits	3½ digits	3½ digits	5 digits
Backlit LCD	✓							✓	✓	
Battery Life		100 Hrs	100 Hrs	500 Hrs	+500 Hrs	100 Hrs	100 Hrs	200 Hrs	100 Hrs	200 Hrs
Battery Type	4 "AAA"	9 V	9 V	9 V	9 V	9 V	9 V	9 V	9 V	9V
Input Connection	SMP	SMP	SMP	TA4F	SMP, TA3F, PPM2	SMP	SMP	SMP Jack	SMP	SMP
Delta T1-T2	✓							✓		✓
Data Hold	✓				✓			✓	✓	✓
Min/Max	✓								✓	✓
Storage										
Relative	✓									✓
Hi/Lo Limits with Beeper	✓									✓
Other Features	Data storage 10,000 samples Windows software	Economical and rugged NIST CAL certificate CE	Economical and rugged NIST CAL certificate CE	Rugged case high accuracy NIST CAL certificate CE	Very compact size	Linear analog output NIST CAL certificate CE	Linear analog output NIST CAL certificate CE	Full function DMM CE	Diode, hFE, logic test CE	RS232 cable & Windows software, timer
Included Accessories	NIST CAL certificate, rubber boot, Windows software & RS232 cable	ACC kit CAL certificate	ACC kit CAL certificate	NIST CAL certificate mating connector	ACC kit rubber holster	ACC kit CAL certificate	ACC kit CAL certificate	ACC kit test lead set	ACC kit test lead set	Carrying case CAL certificate Windows software & RS232 cable
Page No.	L-30	L-31	L-31	L-32	L-33	L-35	L-35	L-36	L-37	L-38
Price	£184	£84	£84	£200	£198	£200	£200	£84	£80	£111

Comes with a beaded wire thermocouple probe (1 per channel).

Note: All DMM's come with safety test leads.

* Number of Temperature Inputs

✓ = has this feature
ACC = Accessory

T/C = Thermocouple
DMM = Digital Multimeter

SMP = Subminiature Connector

Handheld Thermometer



Series	HH306	HH309	HH2000	HH83/ HH84	OM-2041	HH85/ HH86	HH81A	HH500P	HH611A/ HH612P2C	HH800	HH800A
Input Type	K	K	K, T, J, N, R, S RTD Pt100	J, K, T, E thermistor	J, K, T, E process inputs	J, K	J, K, T, E	J, K	K, J, T R, S RTD Pt100	K	J, K
No. Inputs*	2	4	1/2	1/2	4	1/2	1/2	2	1/2/4	1	1
°C/°F Switchable	✓	✓	✓	✓	✓	✓	✓	✓	HH611A	✓	✓
Resolution	0.1°	0.1°, 1°	0.1°, 1°	0.1°, 1°	0.1°	0.1°, 1°	0.1°, 1°	0.1°	0.1°, 1°	0.1°, 1°	0.1°, 1°
Temperature Measurement Accuracy	±0.2% rdg +1°C	±0.2% rdg +1°C	±0.1% ±0.5%	±0.1% rdg +0.7°C	±0.1% rdg	±0.1% rdg +1°C	±0.1% rdg +0.7°C	±0.1% rdg +0.8°C	±0.5°C or 0.3% rdg whichever is greater	±0.1% rdg +1°C	±0.1% rdg
Max Temperature Measurement	-200 to 1370°C -328 to 2498°F	-200 to 1370°C -328 to 2498°F	-250 to 1750°C	-200 to 1372°C -328 to 2500°F	-200 to 1370°C -328 to 2498°F	-100° to 1372°C -150° to 1999°F	-200 to 1372°C -328 to 2500°F	-200 to 1370°C -328 to 2498°F	-200 to 1370°C -300 to 2500°F	-200 to 1372°C -328 to 1999°F	-200 to 1372°C -328 to 1999°F
Display	4 digits	4 digits	4 digits	4 digits	5 digits	3½ digits	4 digits	5 digits	4 digits	3 digits	3 digits
Backlit LCD		✓			✓	✓				✓	✓
Battery Life	Varies	100 Hrs	500 Hrs	450 Hrs	500 Hrs	150 Hrs	450 Hrs	100 Hrs	500 Hrs		
Battery Type	9 V	9 V	2 "AA"	9 V	4 "AA"	9 V	2 "AA"	6 "AA"	4 "AA"	4 "AAA"	4 "AAA"
Input Connection	SMP	SMP	SMP TA4F	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP
Delta T1-T2		✓	✓	HH84	✓	✓	HH82A				
Data Hold	✓	✓	✓	✓		✓	✓			✓	✓
Min/Max	✓	✓	✓	✓	✓	✓	✓			✓	✓
Storage	✓			✓		✓		✓	Logging version		
Relative				✓	✓		✓				
Hi/Lo Limits with Beeper				✓	✓		✓				
Other Features	Triple display 16,000 point logger CE	Data storage 16,000 samples/ channel Real Time clock CE	Datalogging option speed read option CE	Auto power-off waterproof dustproof RS232 20,000 point logger CE	Data storage 10,000 samples/ channel IP64 protection 5 yr battery backup CE	Stores 125 points HH86, dual input version CE	Auto power-off waterproof dustproof stores 10, HH82A dual input CE	Stores 32,000 points RS232 graphic printer CE	Auto shut-off printing/log function RS232 CE	Large display, auto power-off T/C offset	Large display, auto power-off T/C offset, data storage 120 samples
Included Accessories	ACC kit	Carrying case NIST CAL certificate Windows software & RS232 cable	Shock resistant holster ACC kit	Beaded wire Type K T/C	Operator's manual & batteries	Protective holster	Beaded wire Type K T/C	Carrying case software ACC kit	ACC kit	Protective rubber boot, batteries	Protective rubber boot, batteries
Page No.	L-39	L-40	L-41	L-44	L-47	L-49	L-50	L-51	L-53	L-55	L-55
Price	£124	£187	£100	£389	£530	from £133	£100	£399	£191	£57	£66

Note: All DMM's come with safety test leads.

* Number of Temperature Inputs

✓ = has this feature
ACC = Accessory

T/C = Thermocouple
DMM = Digital Multimeter

SMP = Subminiature Connector

Selection Guide



Series	HH801	HH801A	HH801B	HH801C	HH802U	HH802W	HH803U	HH803W	HH804U	HH804W	HH805U
Input Type	K	J, K	J, K, T, E	J, K, T, E	J, K	J, K	J, K	J, K	RTD	RTD	RTD
No. Inputs*	2	2	2	2	2	2	1	1	2	2	1
°C/°F Switchable	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Resolution	0.1°, 1°	0.1°, 1°	0.1°	0.1°, 1°	0.1°	0.1°	0.1°	0.1°	0.1°	0.1°	0.1°
Temperature Measurement Accuracy	±0.1% rdg	±0.1% rdg	±0.1% rdg	±0.1% rdg	±0.05% rdg	±0.05% rdg	±0.05% rdg	±0.05% rdg	±0.05% rdg	±0.05% rdg	±0.05% rdg
Max Temperature Measurement	-200 to 1372°C -328 to 1999°F	-200 to 1372°C -328 to 1999°F	-220 to 1372°C -364 to 2501°F	-200 to 1372°C -364 to 1999°F	-200 to 1372°C -328 to 2501°F	-200 to 1372°C -328 to 2501°F	-200 to 1372°C -328 to 2501°F	-200 to 1372°C -328 to 2501°F	-200 to 800°C -328 to 1472°F	-200 to 800°C -328 to 1472°F	-200 to 800°C -328 to 1472°F
Display	3 digits	3 digits	5 digits	3 digits	5 digits	5 digits	5 digits	5 digits	4 digits	4 digits	4 digits
Backlit LCD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Battery Life											
Battery Type	4 "AAA"	4 "AAA"	4 "AAA"	4 "AAA"	4 "AAA"	4 "AAA"	4 "AAA"	4 "AAA"	4 "AAA"	4 "AAA"	4 "AAA"
Input Connection	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP
Delta T1-T2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Data Hold	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Min/Max	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Storage											
Relative	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
Hi/Lo Limits with Beeper			✓	✓	✓	✓	✓	✓	✓	✓	✓
Other Features	Large display, auto power-off T/C offset	Large display, auto power-off T/C offset, data storage 120 samples	Triple display, auto power-off T/C offset	Large display, auto power-off T/C offset	Dual display, elapsed time, USB port, DC power jack	Dual display, elapsed time, wireless transmitter	Dual display, elapsed time, USB port, DC power jack	Dual display, elapsed time, wireless transmitter	Dual display, elapsed time, USB port, DC power jack	Dual display, elapsed time, wireless transmitter	Dual display, elapsed time, USB port, DC power jack
Included Accessories	Protective rubber boot, batteries	Protective rubber boot, batteries	Protective rubber boot, batteries	Protective rubber boot, batteries	Protective rubber boot, batteries	Protective rubber boot, batteries	Protective rubber boot, batteries	Protective rubber boot, batteries	Protective rubber boot, batteries	Protective rubber boot, batteries	Protective rubber boot, batteries
Page No.	L-55	L-55	L-55	L-55	L-57	L-57	L-57	L-57	L-58	L-58	L-58
Price	£73	£77	£80	£86	£104	£104	£101	£101	£100	£100	£97

Note: All DMM's come with safety test leads.

* Number of Temperature Inputs

✓ = has this feature
ACC = Accessory

T/C = Thermocouple
DMM = Digital Multimeter

SMP = Subminiature Connector

Handheld Thermometer



Series	HH805W	HH806U	HH806AU	HH806W	HH806AW	HH501AJK	HH501BJK	HH508	HH509	HH501AR/ HH501AS	HH501BR/ HH501BS
Input Type	RTD	J, K, T, E, R, S, N	J, K, T, E, R, S, N	J, K, T, E, R, S, N	J, K, T, E, R, S, N	J, K	J, K	K, J, T E, S	K, J, T,	R or S	R or S
No. Inputs*	1	2	2	2	2	1	2	1	2	1	2
°C/°F Switchable	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Resolution	0.1°	0.1°, 1°	0.1°, 1°	0.1°, 1°	0.1°, 1°	0.1°, 1°	0.1°, 1°	0.1°, 1°	0.1°, 1°	1°	1°
Temperature Measurement Accuracy	±0.05% rdg	±0.05% rdg	±0.05% rdg	±0.05% rdg	±0.05% rdg	0.1% rdg	0.1% rdg	±1% rdg	±0.1% rdg	±0.1% +1°C	±0.1% +1°C
Max Temperature Measurement	-200 to 800°C	-200 to 1372°C	-200 to 1372°C	-200 to 1372°C	-200 to 1372°C	-50 to 1370°C	-50 to 1370°C	-200 to 1767°C	-200 to 1767°C	0 to 1767°C	0 to 1767°C
	-328 to 1472°F	-328 to 2501°F	-328 to 2501°F	-328 to 2501°F	-328 to 2501°F	-58 to 1950°F	-58 to 1950°F	-346 to 1999°F	-346 to 1999°F	32 to 1999°F	32 to 1999°F
Display	4 digits	4 digits	4 digits	4 digits	4 digits	3½ digits	3½ digits	3½ digits	3½ digits	3 digits	3 digits
Backlit LCD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Battery Life						200 Hrs	200 Hrs	100 Hrs	100 Hrs	200 Hrs	200 Hrs
Battery Type	4 "AAA"	4 "AAA"	4 "AAA"	4 "AAA"	4 "AAA"	9 V	9 V	9 V	9 V	9 V	9 V
Input Connection	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP
Delta T1-T2	✓	✓	✓	✓	✓		✓		✓		✓
Data Hold	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Min/Max	✓	✓	✓	✓	✓	✓	✓			✓	✓
Storage											
Relative	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hi/Lo Limits with Beeper	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Other Features	Dual display, elapsed time, wireless transmitter	Data storage 1024 samples, dual display, USB port DC power jack	Data storage 16,000 samples, dual display, USB port DC power jack	Data storage 1024 samples, dual display, wireless transmitter	Data storage 16,000 samples, USB port DC power jack wireless transmitter	Time watch auto power- off	Auto power- off	Water splash resistant	Water splash resistant HH509R, RS232 version	NEMA 4X water/ splash resistant, clock and elapsed time	NEMA 4X water/ splash resistant, clock and elapsed time
Included Accessories	Protective rubber boot, batteries	Protective rubber boot, batteries	Protective rubber boot, batteries	Protective rubber boot, batteries	Windows software wireless receiver, protective rubber boot	ACC kit	ACC kit	ACC kit	ACC kit	Protective rubber boot, 9 V battery	Protective rubber boot, 9 V battery
Page No.	L-58	L-60	L-60	L-60	L-60	L-61	L-61	L-64	L-64	L-66	L-66
Price	£97	£133	£141	£133	£211	£50	£57	£74	£80	£50	£57

Note: All DMM's come with safety test leads.

* Number of Temperature Inputs

✓ = has this feature
ACC = Accessory

T/C = Thermocouple
DMM = Digital Multimeter

SMP = Subminiature Connector

Selection Guide



Series	HH506RA	HH200A	HH201A	HH202A	HH203A	HH601A	HH64A	HH370	HH2016T HH2146T	HH40	865/ 866
Input Type	J, K, T, E, R, S, N	K, T, R, N J, E, S, OS36, mV	K, T, R, N, J, E, S OS36, mV	K, T, R, N, J, E, S, OS36, mV	K, T, R, N, J, E, S OS36, mV	J, K, T	K, N, T, J	RTD 4-wire	T T/C thermistor	Thermistor 400 Series 2252 Ω	Thermistor 400 Series 2252 Ω
No. Inputs*	2	1	1	2	1	1	1	1	1	1	1
°C/°F Switchable	✓	✓ (Kelvin)	✓ (Kelvin)	✓ (Kelvin)	✓ (Kelvin)	✓	✓	✓		✓	°F only °C only
Resolution	0.1°, 1°	0.1°	0.1°	0.1°	0.1°	0.1°, 1°	0.1°, 1°	0.1°	0.1°	0.01°	0.1°, 1°
Temperature Measurement Accuracy	±0.05% +3°C	±0.25% rdg +0.2°C	±0.25% rdg +0.2°C	±0.25% rdg +0.2°C	±0.25% rdg +0.2°C	J=±0.2%FS K=±0.2%FS T=±0.5%FS	±0.15% ±0.2°C	±0.1% of rdg +0.4°C	±0.2 to 0.5°C	up to ±0.015%	±0.3% rdg +1°C
Max Temperature Measurement	-210 to 1767°C 346 to 3212°F	-200 to 1767°C -58 to 3212°F	-200 to 1767°C -58 to 3212°F	-200 to 1767°C -58 to 3212°F	-200 to 1767°C -58 to 3212°F	-200 to 1370°C -300 to 2500°F	-200 to T/C limit	-100 to 300°C -148 to 572°F	-40 to 120°C -40 to 248°F	-20 to 130°C -4 to 266°F	-57 to 150°C -70 to 300°F
Display	4 digits	3½ digits	3½ digits	3½ digits	3½ digits	4 digits	4 digits	4 digits	3½ digits	4½ digits	3½ digits
Backlit LCD	✓							✓			
Battery Life	100 Hrs	>200 Hrs	>200 Hrs	>200 Hrs	>200 Hrs	500 Hrs	200 Hrs	100 Hrs	500 Hrs	20 Hrs	350 Hrs
Battery Type	9 V	MN1604	MN1604	MN1604	MN1604	9 V	9 V	3 "AAA"	2 "AA"	9 V	9 V
Input Connection	SMP	SMP	SMP	SMP	SMP	SMP	SMP	5-pin	Lumberg	PPM-2 phone plug	PPM-2 phone plug
Delta T1-T2	✓			✓							
Data Hold	✓		✓	✓		✓	✓	✓	✓		
Min/Max	✓		✓			✓	✓	✓			
Storage											
Relative	✓							✓			
Hi/Lo Limits with Beeper	✓										
Other Features	Data storage 1024 samples, triple display, NEMA 4X water/ splash resistant	°K OS36 IR compatible CE	°K OS36 IR compatible CE	°K OS36 IR compatible CE	Measures & simulates dual display °K OS36 IR compatible CE	Hi/Lo clear memory recall water resistant CE	Water resistant CE	IP67 waterproof construction dual display	Waterproof food service CE	Ultra high accuracy RS232C	Economical high accuracy NIST CAL certificate
Included Accessories	Windows software & RS232 cable, protective rubber boot	Shock resistant holster ACC kit	Shock resistant holster ACC kit	Shock resistant holster ACC kit	Shock resistant holster ACC kit	ACC kit	ACC kit	NIST CAL certificate, RTD probe & 3 "AAA" batteries	ACC kit	ACC Kit rubber boot	NIST CAL certificate mating connector
Page No.	L-67	L-69	L-69	L-69	L-69	L-71	L-72	L-73	L-74	L-75	L-77
Price	£97	£121	£151	£154	£235	£101	£302	£234	from £97	from £268	£133

Note: All DMM's come with safety test leads.

* Number of Temperature Inputs

✓ = has this feature
ACC = Accessory

T/C = Thermocouple
DMM = Digital Multimeter

SMP = Subminiature Connector