

CENTER 300/301/302/303 THERMOMETER



FEATURES:

- Timer Function (300, 302)
- Dual Input (301, 303)
- Dual Display (301, 303)
- RS232 interface
- Auto Power OFF
- Resolution 0.1°C, 0.1°F

300/301 K TYPE

302/303 K, J TYPE

SPECIFICATIONS

Range	K type: -200 ~ 1370°C; -200 ~ 2498°F (300 ~ 303) J type: -200 ~ 760°C; -200 ~ 1400°F (302, 303)
Accuracy	±0.1% + 0.7°C, ±0.1% + 1.4°F
Resolution	0.1°C; 0.1°F
Operation Temp	0°C ~ 50°C (< 80%RH)
Storage Temp	-20°C ~ 60°C (< 70%RH)
Battery	9V battery
Dimensions	184x64x30 mm
Weight	Approx.210g

CENTER 307/308 COMPACT SIZE THERMOMETER



FEATURES:

- Mini Size
- Dual Input (308)
- Dual Display (308)
- Auto Power OFF
- Time Display

SPECIFICATIONS

Range	-200 ~ 1370°C; -328 ~ 2498°F
Accuracy	±0.3% + 1°C, ±0.3% + 2°F
Input Protection	60V DC or 24Vrms AC Maximum
Resolution	0.1°C; 0.1°F
Operation Temp	0°C ~ 40°C (< 80%RH)
Storage Temp	-10°C ~ 60°C (< 70%RH)
Battery	9V battery
Dimensions	184x54x34 mm
Weight	Approx.200g

CENTER 305/306 DATALOGGER THERMOMETER



FEATURES:

- Dual Input (306)
- Triple Display
- Time Function
- RS232 Interface
- With Window Software
- 16,000 Records Data logger (306)
- Resolution 0.1°C, 0.1°F

SPECIFICATIONS

Range	K type: -200 ~ 1370°C; -328 ~ 2498°F
Accuracy	±0.3% + 1°C, ±0.3% + 2°F
Resolution	0.1°C; 0.1°F
Operation Temp	0°C ~ 50°C (< 80%RH)
Storage Temp	-20°C ~ 60°C (< 70%RH)
Battery	9V battery
Dimensions	184x64x30 mm
Weight	Approx.210g

CENTER 304/309 FOUR CHANNELS THERMOMETER



FEATURES:

- Auto Range
- Four Channel Input
- Four Channel Display
- Wide Measuring Range (304)
- With Window Software (309)
- RS-232 Interface
- 16,000 Records Data Logger each channel (309)
- Resolution 0.1°C, 0.1°F

309 Datalogger

304 K TYPE

SPECIFICATIONS

Range	K type: -200 ~ 1370°C; -328 ~ 2498°F
Accuracy	±0.3% + 1°C, ±0.3% + 2°F
Resolution	0.1°C; 0.1°F
Input Protection	60V DC or 24Vrms AC Maximum
Operation Temp	0°C ~ 50°C (< 80%RH)
Storage Temp	-20°C ~ 60°C (< 70%RH)
Battery	9V battery
Dimensions	184x64x30 mm
Weight	Approx.220g

Standard Accessories

Model	Battery	Option Manual	Carrying Case	Temperature Probe	RS-232 Cable	Software
CENTER 300	•	•	•	TP-K01 x 1PC	OPTION	OPTION
CENTER 301	•	•	•	TP-K01 x 2PCS		
CENTER 302	•	•	•	TP-K01 x 1PC		
CENTER 303	•	•	•	TP-K01 x 2PCS		
CENTER 304	•	•	•	TP-K01 x 1PC		
CENTER 305	•	•	•	TP-K01 x 2PCS	•	•
CENTER 306	•	•	•	TP-K01 x 1PC	•	•
CENTER 307	•	•	•	TP-K01 x 2PCS		
CENTER 308	•	•	•	TP-K01 x 1PC		
CENTER 309	•	•	•	TP-K01 x 2PCS	•	•

CENTER 370 RTD THERMOMETER

CE



WATER PROOF

FEATURES:

- IP67 water proof Housing to work for almost all kinds of environments.
- PT temperature sensor for less environmental dependent reading.
- Adapt for PT100, PT500 and PT1000 sensors with α value of 3850.
- Max/Min/Avg Function.
- LCD back light.
- $^{\circ}\text{C}$, $^{\circ}\text{F}$ scale selectable and 0.1 $^{\circ}\text{C}$, 0.1 $^{\circ}\text{F}$ resolution.
- 3 sectors battery life indicator.

SPECIFICATIONS

Measurement Range	-100 ~ 300 $^{\circ}\text{C}$: 148 ~ 572 $^{\circ}\text{F}$
Measurement Accuracy	$\pm 0.1^{\circ}\text{rdg} \pm 0.4^{\circ}\text{C}$
Resolution	0.1 $^{\circ}\text{C}$; 0.1 $^{\circ}\text{F}$
Sampling Rate	2 time/sec.
Water Resistance	IP67(EN60529:1991)
Battery	1.5V, size AAA battery x 3
Dimensions	150 x 66 x 31 mm
Weight	Approx. 175g
Sensor Type	Platinum temperature-measurement resistor(Pt100/4 line type)

CENTER 372 RTD THERMOMETER

CE



WATER PROOF

FEATURES:

- IP67 water proof Housing to work for almost all kinds of environments.
- PT temperature sensor for less environmental dependent reading.
- PT100 sensor with α value of 3850/3926 RTD standard.
- Max/Min/Avg Function.
- LCD back light.
- $^{\circ}\text{C}$, $^{\circ}\text{F}$ scale selectable and 0.1 $^{\circ}\text{C}$, 0.1 $^{\circ}\text{F}$ resolution.
- 3 sectors battery life indicator.
- Dual input channels.

SPECIFICATIONS

Measurement Range	-100 ~ 300 $^{\circ}\text{C}$: 148 ~ 572 $^{\circ}\text{F}$
Measurement Accuracy	$\pm 0.1^{\circ}\text{rdg} \pm 0.4^{\circ}\text{C}$
Resolution	0.1 $^{\circ}\text{C}$; 0.1 $^{\circ}\text{F}$
Sampling Rate	2 time/sec.
Water Resistance	IP67(EN60529:1991)
Battery	1.5V, size AAA battery x 3
Dimensions	150 x 66 x 31 mm
Weight	Approx. 175g
Sensor Type	Platinum temperature-measurement resistor(Pt100/4 line type)

CENTER 350/352 INFRARED THERMOMETER

CE



FEATURES:

- Simple One-Handed operation
- Laser Targeting
- LCD With Back Light
- $^{\circ}\text{C}/^{\circ}\text{F}$ Select Switch
- Laser ON/OFF Switch
- Automatic Power Off
- Display Hold Function

SPECIFICATIONS

	350	352
Range	-20 ~ 500 $^{\circ}\text{C}$ -4 ~ 932 $^{\circ}\text{F}$	-20 ~ 500 $^{\circ}\text{C}$ -4 ~ 932 $^{\circ}\text{F}$
Accuracy	$\pm 2\%$ or $\pm 2^{\circ}\text{C}(3^{\circ}\text{F})$	$\pm 2\%$ or $\pm 2^{\circ}\text{C}(3^{\circ}\text{F})$
Resolution	0.5 $^{\circ}\text{C}$; 0.5 $^{\circ}\text{F}$	0.1 $^{\circ}\text{C}$; 0.2 $^{\circ}\text{F}$
Distance to Spot(D:S)	8 : 1	12 : 1
Response Time	500m Sec.	500m Sec.
Emissivity	Pre-Set at 0.95	Pre-Set at 0.95
Battery	9V battery	9V battery
Dimensions	157.5 x 115 x 36 mm	157.5 x 115 x 36 mm
Weight	Approx. 200g	Approx. 200g

CENTER 340 THERMO RECORDER

CE



FEATURES:

- LCD With Back Light
- Battery Status Display
- Memory Status Display
- Shipped With Wall Hanging Tag
- Water Proof For All Weather Application

SPECIFICATIONS

	340
Measurement Temperature	-30 ~ 70 $^{\circ}\text{C}$, -22 ~ 158 $^{\circ}\text{F}$
Measurement Humidity	
Accuracy	$\pm 0.7^{\circ}\text{C}$
Resolution	0.1 $^{\circ}\text{C}$; 0.1 $^{\circ}\text{F}$
Battery	1.5V size AAA battery x 2
Dimensions	Recorder 82 x 55 x 21 mm Hanger 106.5 x 59 x 25.5 mm CENTER345 107.5 x 62 x 28 mm

CENTER 342

TEMPERATURE HUMIDITY RECORDER



FEATURES:

- LCD With Back Light
- Battery Status Display
- Memory Status Display
- Shipped With Wall Hanging Tag
- 32,000 Records Datalogger Per Channel
- "SlimCom" RS-232 Interface
- With Windows Software

SPECIFICATIONS

342	
Measurement Temperature	-30 ~ 70°C, -22 ~ 158°F
Measurement Humidity	5% ~ 98%RH
Accuracy	± 0.7°C; ± 3%RH
Resolution	0.1°C; 0.1°F; 0.1%RH
Battery	1.5V size AAA battery x 2
Dimensions	Recorder 92 x 55 x 22 mm
	Hanger 106.5 x 59 x 25.5 mm
	CENTER345 107.5 x 62 x 28 mm

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CENTER 345

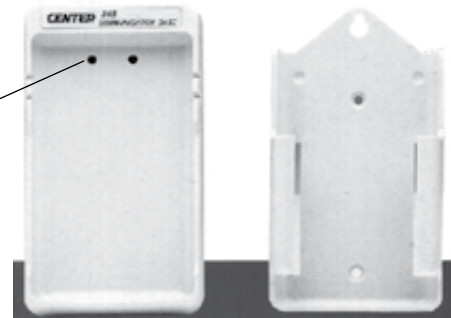
COMMUNICATION BASE

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STANDARD ACCESSORIES

Battery, Operation Manual, RS-232 Cable, CENTER 345, Hanger, Software SE-345(CENTER340)/SE-342(CENTER342).



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CENTER 310-311

TEMPERATURE HUMIDITY



CE

FEATURES:

- Dual Input (311)
- Triple Display
- RS-232 Interface
- Timer Function (310)
- REL Function (311)
- Auto Power Off
- HOLD Function
- MAX MIN Function
- Resolution 0.1°C, 0.1°F, 0.1%RH

SPECIFICATIONS

Range & Accuracy	Temperature: -20 ~ 60°C.....±0.7°C -4 ~ 140°F.....±1.4°F (K-Type): -200 ~ 1370°C.....±0.3%rdg + 1°C -328 ~ 2498°F.....±0.3%rdg + 2°F
Humidity	0 ~ 100%RH.....±2.5%RH
Input Protection	60V DC or 24Vrms AC Maximum
Battery	9V battery
Dimensions	Meter: 186x64x30 mm Probe: 190(L)x15(Dia) mm
Weight	Approx.320g

CENTER 313/314

DATALOGGER TEMPERATURE HUMIDITY



CE

FEATURES:

- Dual Input (314)
- Triple Display (314)
- RS-232 Interface
- 16,000 Records Data Logger Per Channel
- Auto Power Off
- CLOCK Function
- HOLD Function
- MAX/MIN Function
- Resolution 0.1°C, 0.1°F, 0.1%RH

SPECIFICATIONS

Range & Accuracy	Temperature: -20 ~ 60°C.....±0.7°C -4 ~ 140°F.....±1.4°F (K-Type): -200 ~ 1370°C.....±0.3%rdg + 1°C -328 ~ 2498°F.....±0.3%rdg + 2°F
Humidity	0 ~ 100%RH.....±2.5%RH
Input Protection	60V DC or 24Vrms AC Maximum
Battery	9V battery
Dimensions	Meter: 186x64x30 mm Probe: 190(L)x15(Dia) mm
Weight	Approx.320g

CENTER 315

COMPACT SIZE HUMIDITY THERMOMETER



FEATURES:

- Mini Size
- Fast Response Time
- Dual Display
- Auto Power Off
- REL Function
- HOLD Function
- MAX/MIN Function
- Resolution 0.1%RH, 0.1°C/0.1°F

SPECIFICATIONS

Range	K type: -20 ~ 80°C; -4 ~ 140°F; 1 ~ 99%RH
Accuracy	±0.8°C, 1.6°F ±3%RH
Resolution	0.1°C; 0.1°F; 0.1%RH
Operation Temp	0°C ~ 40°C (< 80%RH)
Storage Temp	-10°C ~ 60°C (< 70%RH)
Battery	9V battery
Dimensions	164x54x34 mm
Weight	Approx. 220g

Model	CENTER 310	CENTER 311	CENTER 313	CENTER 314	CENTER 315
Battery	•	•	•	•	•
Operation Manual	•	•	•	•	•
Carrying Case	•	•	•	•	•
K Type base sensor		TP-K01		TP-K01	
RS-232 Cable	Option	Option	•	•	
Software	Option	Option	•	•	

CENTER 320

SOUND LEVEL METER



FEATURES:

- 4 Digits Display
- MAX/MIN Function
- Level Range Display
- Resolution 0.1dB
- AC/DC Signal Output
- IEC 651 TYPE II

SPECIFICATIONS

Level Range	Lo-30 ~ 80dB; Med-50 ~ 100dB; Hi-80 ~ 130dB
Accuracy	±1.5dB (ref 94dB@1KHz)
Frequency Weighting	A / C
Time Weighting	Fast, Slow
Dynamic Range	50dB
Frequency Range	31.5Hz to 8KHz
Microphone	Electret condenser microphone
Auxiliary Outputs	AC/DC Output
Battery	9V battery
Dimensions	275x64x30 mm
Weight	Approx. 280g

CENTER 321

SOUND LEVEL METER



FEATURES:

- RS-232 Interface
- Bargraph Indication
- MAX/MIN Function
- Auto Ranging (30 ~ 130dB)
- Resolution 0.1dB
- Level Range Display
- AC/DC Signal Output
- Auto Power Off
- IEC 651 TYPE II

SPECIFICATIONS

Level Range	Lo-30 ~ 80dB; Med-50 ~ 100dB; Hi-80 ~ 130dB
Accuracy	±1.5dB (ref 94dB@1KHz)
Frequency Weighting	A / C
Time Weighting	Fast, Slow
Dynamic Range	50dB
Frequency Range	31.5Hz to 8KHz
Microphone	Electret condenser microphone
Auxiliary Outputs	AC/DC Output
Battery	9V battery
Dimensions	275x64x30 mm
Weight	Approx. 280g

CENTER 322

DATALOGGER SOUND LEVEL METER



FEATURES:

- RS-232 Interface
- 32,000 Records Datalogger
- Bargraph Indication
- MAX/MIN Function
- Auto Ranging (30 ~ 130dB)
- Resolution 0.1dB
- Clock Display
- Level Range Display
- IEC 651 TYPE II

SPECIFICATIONS

Level Range	Lo-30 ~ 80dB; Med-50 ~ 100dB; Hi-80 ~ 130dB
Accuracy	±1.5dB (ref 94dB@1KHz)
Frequency Weighting	A / C
Time Weighting	Fast, Slow
Dynamic Range	50dB
Frequency Range	31.5Hz to 8KHz
Microphone	Electret condenser microphone
Auxiliary Outputs	AC/DC Output
Battery	9V battery
Dimensions	275x64x30 mm
Weight	Approx. 280g

CENTER 325

COMPACT SIZE SOUND LEVEL METER



FEATURES:

- Mini Size
- Low Cost High Performance
- MAX/MIN Function
- Resolution 0.1dB
- Level Range Display
- IEC 651 TYPE II

SPECIFICATIONS

Level Range	Lo-32 ~ 80dB ; Med-50 ~ 100dB ; Hi-80 ~ 130dB
Accuracy	± 1.5dB (ref 94dB@1KHz)
Frequency Weighting	A / C
Time Weighting	Fast, Slow
Dynamic Range	50dB
Frequency Range	31.5Hz to 8KHz
Microphone	Electret condenser microphone
Auxiliary Outputs	AC signal output
Battery	9V battery
Dimensions	232x54x34 mm
Weight	Approx.200g

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CENTER 328

SOUND LEVEL METER



FEATURES:

- Mini Size
- Easy to use
- Low Cost High Performance
- MAX Function
- Autoranging
- Maximum Recording
- 4-digit LCD With a Resolution of 0.1dB
- Internal Calibrator (94dB@1kHz)

SPECIFICATIONS

Measure Range	32 ~ 130dB
Accuracy	± 1.4dB (ref 94dB@1KHz)
Frequency Weighting	A
Time Weighting	FAST
Frequency Range	31.5Hz to 8KHz
Microphone	1/2 Electret condenser microphone
Battery	1.5Vsize AAA battery x 2
Dimensions	206 x 42 x 25 mm
Weight	Approx.100g

CE

CENTER 326/327

SOUND LEVEL CALIBRATOR



FEATURES:

- 94dB and 114dB Sound Calibrator at 1kHz(326)
- 94dB Sound Calibrator at 125Hz AND 250Hz(327)
- Accurate and Simple to Use
- Fits 1 inch and 1/2 inch Microphones
- Low battery indicator
- IEC 60942(2003) Class 2, Ans1.40-1984

SPECIFICATIONS

Output Sound Pressure Levels	114dB and 94dB re 20uPa under reference Conditions(326) 94dB re 20uPa under reference Conditions(327)
Output Frequency	1000Hz±2%(326) ; 125Hz±2% and 250Hz±2%(327)
Total Harmonic Distortion	< 4%
Reference Condition	Temperature 23°C (73°F) Static press 103hpa Relative humidity 50%
Accuracy of sound pressure level	Understated reference environment conditions ±0.5dB
Battery test	Operate: Green LED indicator Low battery: Red LED indicator
Battery	9V battery
Dimensions	113x63x44 mm
Weight	Approx.170g

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CENTER 500 TEMPERATURE GRAPHIC RECORDER



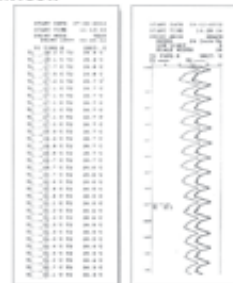
FEATURES:

- Built in thermal printer for text and graphic printout.
- Dual 5 digits big font LCD display to provide simultaneous readout of T1 and T2.
- The easy access menu buttons and text area in the LCD display provide a simple and intuitively hierarchical menu operation for system setup.
- Button group for thermometer provides the direct access of the most commonly used functions for temperature measurement.
- Button group for printer provides the direct access of most commonly used functions for printer control.
- Photo coupler isolated RS-232 port provides the direct connection of data flow to a personal computer with the Window based software.
- Dual inputs thermal couple connector provides two inputs for K and J type temperature sensors.

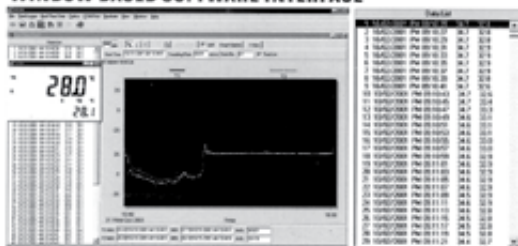
TEXT AND GRAPHIC PRINTOUT:

When the meter is at text printout mode, the output will include the start time, end time, interval and recording data. The format will make it easy to track the variation of the data and the actual recording time.

When the meter is at graphic printout mode, the start time, end time, and recording speed will be listed at first. In the graph, the Time scale will be labeled And printing scale is programmable.



WINDOW BASED SOFTWARE INTERFACE



SPECIFICATIONS

Model	CENTER 500 Temperature RECORDER	CENTER 502 Voltage / Current RECORDER
Range	K Type: -200 ~ 1370°C (-328 ~ 2498°F) J Type: -200 ~ 780°C (-328 ~ 1400°F)	V \rightarrow 500mV, 5V, 50V, 500V mA \rightarrow 500mA, 5A
Accuracy	-200 ~ 1370°C... $\pm 0.1\%$ rdg + 0.8°C -328 ~ 2498°F... $\pm 0.1\%$ rdg + 1.6°F	ACV, ACmA... $\pm 1.2\%$ rdg + 5 dgts DCV, DCmA... $\pm 1\%$ rdg + 3 dgts
Resolution	0.1°C/0.1°F	0.1mV/0.1mA
Memory	32,000 Records	50,000 Records
Input Protection	60V DC or 24Vrms Maximum	600Vrms Maximum
Operation Temp	0°C ~ 50°C	
Storage Temp	-20°C ~ 60°C	
Power Supply	Approx. 100Hours	
Battery Life	1.5V size AA alkaline batteries x 6	
Dimensions	242(L) x 98(W) x 42(H)mm	
Weight	Approx. 580g	

Thermometer

THERMAL PROBE

ACCESSORIES FOR CENTER (THERMAL PROBE)

Description	Model	Measurement Range	Tolerances	Picture
K-Type General Purpose Bead Probe	TP-K01	-50°C to 200°C -58°F to 392°F	2.2°C 3.9°F	
K-Type Immersion Probe	TP-K02	-50°C to 700°C -58°F to 1292°F	2.2°C 3.9°F	
K-Type Flat Surface Probe	TP-K03	-50°C to 400°C -58°F to 752°F	2.2°C 3.9°F	
K-Type Piercing Probe	TP-K04	-50°C to 600°C -58°F to 1122°F	2.2°C 3.9°F	
K-Type Flat Surface Probe	TP-K05	-50°C to 400°C -58°F to 752°F	2.2°C 3.9°F	
K-Type Air Probe	TP-K06	-50°C to 800°C -58°F to 1472°F	2.2°C 3.9°F	