

APPA 50 Series

Temperature Test & Measurements



- K-type Thermocouple (51, 52)
- Large LCD display (18.5mm)
- Dual thermocouple input (52, 55II)
- Differential temperature (T1-T2) (52, 55II)
- 0.3%+1°C basic accuracy (51, 52)
- °C or °F display (51, 52)
- Maximum Record (51, 52)
- Reading Hold function (51, 52)
- Triple 4 digit large LCD display shows any combination of T1, T2, T1-T2 plus MIN, MAX and AVG. (55II)
- Triple 4 digit large LCD display shows main reading plus MIN, MAX or AVG. (53II)
- MIN, MAX, and AVG display with Real Time Stamp (53II, 55II)
- Auto Calibration with excellent accuracy (53II, 55II)
- Measure K, J-Types of thermocouples (53II, 55II)
- Selectable °C, °F or K reading (53II, 55II)
- Easy to use panel design (53II, 55II)
- Data logging up to 16,000 records (53II, 55II)
- Optical RS-232 interface (53II, 55II)
- Auto Power Off with selectable time setting (53II, 55II)
- Protective Holster with tilt stand
- Bead probes included
- Optional optical RS-232 cable and Win DTM50 software (53II, 55II)

EXTRA PROTECTION

Every APPA 50 Series meter is supplied with a protective holster that includes a built-in tilt stand and a nail hook. This holster provides an extra degree of protection and convenience for your meter.



VIRTUAL INSTRUMENTATION

APPA 53II & 55II Digital Thermometer have an optional purchased optical RS-232 cable and powerful, comprehensive Win DTM 50 software which enables a safe and easy connection to PCs for further data acquisition and analysis.





APPA 51

- K-type Thermocouple
- Large LCD display (18.5 mm)
- 1°C or 0.1°C (1°F or 0.1°F) resolution
- 0.3% + 1°C basic accuracy
- °C or °F display
- Maximum Record
- Reading hold function
- Standard 9V battery
- Protective holster with tilt stand
- Bead probe included

APPA 52

- K-type Thermocouple
- Large LCD display (18.5 mm)
- Dual thermocouple input
- Differential temperature (T1-T2)
- 1°C or 0.1°C (1°F or 0.1°F) resolution
- 0.3% + 1°C basic accuracy
- °C or °F display
- Maximum Record
- Reading hold function
- Standard 9V battery
- Protective holster with tilt stand
- Two bead probes included



NEW APPA 53II

- Triple 4digit large LCD display shows main reading plus MIN, MAX or AVG.
- MIN, MAX, and AVG display with Real Time Stamp
- Auto calibration with excellent accuracy
- Measure K, J-Types of thermocouples
- Selectable °C, °F, or K reading
- Easy to use panel design
- Data logging up to 16,000 records
- Optical RS-232 interface
- Auto Power Off with selectable time setting
- Protective Holster with tilt stand
- Bead probe included
- Optional optical RS-232 cable

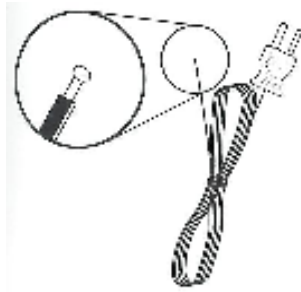
NEW APPA 55II

- Triple 4 digit large LCD display shows any combination of T1, T2, T1-T2 plus MIN, MAX and AVG.
- MIN, MAX, and AVG display with Real Time Stamp
- Auto calibration with excellent accuracy
- Measure K, J-Types of thermocouples
- Selectable °C, °F, or K reading
- Easy to use panel design
- Data logging up to 16,000 records
- Optical RS-232 interface
- Auto Power Off with selectable time setting
- Protective Holster with tilt stand
- Two bead probes included
- Optional optical RS-232 cable and Win DTM 50 software



Temperature Probes For APPA 50 Series Handheld Thermometers

The following interchangeable Type K thermocouples include mini-connectors for use with APPA 50 series meters or other temperature measuring instruments that accept mini-connectors.



50BK Bead Probe

Included with APPA 50 series. General purpose applications. Teflon tape insulation. Not suitable for liquid immersion.

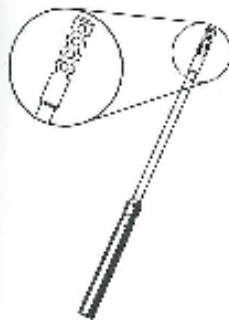
Measurement range:
-40°C to 204°C
(-40°F to 399°F)



50IK Immersion Probe

For liquids and gels. Protected from tip to handle by an Inconel sheath. Suitable for general temperature measurement applications.

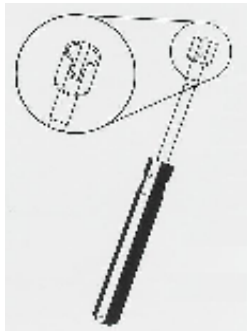
Measurement range:
-196°C to 800°C
(-320°F to 1472°F)



50AK Air Probe

For air and gases. Measuring bead is protected by perforated Stainless Steel baffle. Not for immersion in liquid.

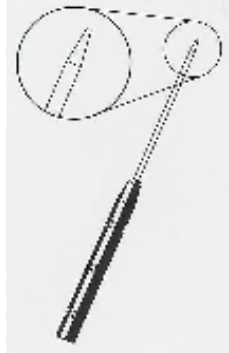
Measurement range:
-196°C to 500°C
(-320°F to 932°F)



50SK Surface Probe

For flat or slightly convex surfaces. Ideal for measurement of hot rollers and plates.

Measurement range:
-0°C to 400°C
(-32°F to 752°F)



50PK Piercing Probe

Suitable for food service. Also suitable for liquids and gels.

Measurement range:
-196°C to 800°C
(-320°F to 1472°F)

APPA 50 & 50II SERIES THERMOMETERS

SPECIFICATIONS: (All at 23°C±5°C, 80% R.H.)		APPA51	APPA52	APPA53II	APPA55II
Measurement Range:	K-type, -50°C~1300°C, -58°F~1999°F	•	•	N/A	N/A
	K-type, -200°C~-1372°C, -328°F~2501°F	N/A	N/A	•	•
	J-type, -210°C~1200°C, -346°F~2192°F				
Resolution:	High: 0.1°C or 0.2°F, Low: 1°C or 1°F	•	•	N/A	N/A
	0.1°C / 0.1 K / 0.2°F ≤1000°, 1°C / 1 K / 2°F ≤1000°	N/A	N/A	•	•
K-type Accuracy:	±(0.3%+1°C) at -50°C~1000°C ±(0.3%+2°F) at -58°F~1832°F	•	•	N/A	N/A
	±(0.5%+1°C) at 1000~1300°C ±(0.5%+2°F) at 1832°F~1999°F				
	±(0.3%+1°C) at -200°C~-100°C ±(0.3%+2°F) at -328°F~-148°F				
	±(0.1%+0.7°C) at -99.9°C~999.9°C ±(0.1%+1.4°F) at -147.8°F~999.9°F	N/A	N/A	•	•
	±(0.3%+1°C) at 1000°C~1372°C ±(0.3%+2°F) at 1000°F~2501°F				
J-type Accuracy:	±(0.3%+1.1°C) at -210°C~-100°C ±(0.3%+2.2°F) at -346°F~-148°F				
	±(0.1%+0.8°C) at -99.9°C~999.9°C ±(0.1%+1.6°F) at -147.8°F~999.9°F	N/A	N/A	•	•
	±(0.3%+1°C) at 1000°C~1200°C ±(0.3%+2°F) at 1000°F~2192°F				
Accuracy:	T1-T2 ±(0.3% of T1-T2 reading + 2.0°C) ±(0.3% of T1-T2 reading + 4.0°F)	N/A	K type	N/A	J+K type
Temperature Coefficient:	0.15(Spec. Acc)/°C, <18°C or>28°C	•	•	N/A	N/A
	0.1(Spec. Acc)/°C, <18°C or>28°C	N/A	N/A	•	•
Data logging Capacity:	16,000 records	N/A	N/A	•	•
Computer Interface Software:	Optical RS-232 interface cable with Win DTM 50 software	N/A	N/A	• Optional	• Optional

GENERAL:

Input:	K-type thermocouple	•	•	•	•
	J-type thermocouple - optional			•	•
Sampling Rate:	2.5times/sec	•	•	2times/sec	1times/sec
Display:	3 1/2 digit (1999 count) LCD, full annunciators	•	•	N/A	N/A
	Triple 4 digit (9999 count) LCD, full annunciators	N/A	N/A	•	•
Overload Indication:		"1" or "-1"	"1" or "-1"	"----"	"----"
Low Battery Indication:		•	•	•	•
Selectable Auto Power Off: ON, OFF, 10, 20, 30, 40, 50 or 60 min.		N/A	N/A	•	•
Operating Temperature: 0°C~50°C, ≤80% RH		•	•	•	•
Storage Temperature: - 20°C ~ 60°C		•	•	•	•
Input Protection: 60V dc or 24Vrms ac maximum		•	•	•	•
Power Requirement: Single 9V battery (NEDA 1604 or IEC 6F22)		•	•	•	•
Battery Life: In hours (Alkaline battery)		250	250	90	90
Size:	64mm(W) x 160mm (L) x 26 mm(H), without holster	•	•	•	•
	74mm(W) x 170mm (L) x 39 mm (H), with holster	•	•	•	•
Weight: In grams (with holster)		430	430	430	430
Included with instrument:	Type 50BK bead thermocouple (x1)	•		•	
	Type 50BK bead thermocouple (x2)		•		•
	Protective holster, belt clip, manual & ZnC battery	•	•	•	•

Specifications subject to change without notice