APPA 50 Series
The Toughest Meters For Environment Test & Measurements

APPA 51
Thermometer

- K-type thermocouple
- Large LCD display (18.5 mm)
- 1ºC or 0.1ºC (1ºF or 0.1ºF) resolution
- 0.3%+ 1ºC basic accuracy
- ºC or ºF display
- Maximum Record
- Reading hold function
- Standard 9V battery
- Protective holster
- Bead probe included

APPA 52
Thermometer

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

APPA 53II
Thermometer

- Triple 4 digit 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 ºC, ºF, 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 and Win DTM 50 software

APPA 55II
Thermometer

- Triple 4 digit large LCD display shows any combination of T1, T2, T1-T2 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 ºC, ºF, 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 probe 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 APPA50 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.
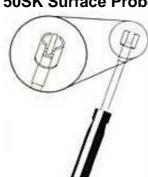Measurement range:
- 196°C to 800°C
(-320°F to 1472°F)

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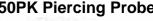Measurement range:
-0°C to 400°C
(-32°F to 752°F)

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.

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 53II & 55II Digital Thermometer have an optional purchased 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.

SPECIFICATIONS:
(All at 23ºC ± 5ºC 80,0% R.H.)

SPECIFICATIONS: (All at 23ºC ± 5ºC 80,0% R.H.)		APPA 51	APPA 52	APPA 53II	APPA 55II
Measurement **Range:**	K-type, -50ºC ~ 1300ºC, -58ºF ~ 1999ºF	●	●	N/A	N/A
	K-type, -200ºC ~ 1372ºC, -328ºF ~ 2501ºF	N/A	N/A	●	●
	J-type, -210ºC ~ 1200ºC, -346ºF ~ 2192ºF				
Resolution:	High: 0.1ºC or 0.2ºF, Low: 1ºC or 1ºF	●	●	N/A	N/A
	0.1ºC/ 0.1K / 0.2ºF 1000 º, 1ºC / 1K / 2ºF 1000 º	N/A	N/A	●	●
K-type **Accuracy:**	± (0.3% + 1ºC) at -50ºC ~ 1000ºC, ± (0.3% + 2ºF) at -58ºF ~ 1832ºF ± (0.5% + 1ºC) at 1000ºC ~ 1300ºC, ± (0.5% + 2ºF) at 1832ºF ~ 1999ºF	●	●	N/A	N/A
	± (0.3 % + 1.0ºC) at -200ºC ~ -100ºC, ± (0.3 % + 2.0ºF) at -328ºF ~ -148ºF				
	± (0.1 % + 0.7ºC) at -99.9ºC ~ 999.9ºC, ± (0.1 % + 1.4ºF) at -147.8ºF ~ 999.9ºF	N/A	N/A	●	●
	± (0.3% + 1ºC) at 1000ºC ~ 1370ºC, ± (0.3% + 2ºF) at 1000ºF ~ 2501ºF)				
J-type **Accuracy:**	± (0.3 % + 1.1ºC) at -210ºC ~ -100ºC, ± (0.3 % + 2.2ºF) at -346ºF ~ -148ºF				
	± (0.1 % + 0.8ºC) at -99.9ºC ~ 999.9ºC, ± (0.1 % + 1.6ºF) at -147.8ºF ~ 999.9ºF	N/A	N/A	●	●
	± (0.3% + 1ºC) at 1000ºC ~ 1200ºC, ± (0.3% + 2ºF) at 1000ºF ~ 2192ºF				
Accuracy:	T1-T2 ± (0.3% of T1-T2 reading + 2.0ºC), ± (0.3% of T1-T2 reading + 4.0ºF)	N/A	●(K-type only)	N/A	●(Both K and J type)
Temperature	0.15 x (Spec. Accuracy) per ºC, <18ºC or > 28ºC	●	●		
Coefficient:	0.1 x (Spec. Accuracy) per ºC, <18ºC or > 28ºC	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 Optional)	●(J-type Optional)
Sampling Rate: 2.5 times/sec	●	●	2 times/sec	1 times/sec
Display: 3 1/2 didit (1999 count) LCD, full annunciators	●	●	N/A	N/A
Triple 4 digit (999 count) LCD, full annunciators	N/A	N/A	●	●
Overload Indication:	"1" or -"-1"	"1" or -"-1"	"----"	"----"
Low Battery Indication:	⊞	⊞	⊞	⊞
Selectable Auto Power Off: You can select an APO of OFF, 10, 20, 30, 40, 50, and 60 minutes.	N/A	N/A	●	●
Operating Temperature: 0 ºC ~ 50 ºC, ≤ 80% RH	●	●	●	●
Storage Temperature: -20 ºC ~ 60 ºC	●	●	●	●
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: 64 mm (W) x 160 mm (L) x 26 mm (H), Without holster 74 mm (W) x 170 mm (L) x 39 mm (H), With holster	●	●	●	●
Weight: in grams (with holster)	430	430	430	430
Included with instrument: Type 50BK bead thermocouple, ZnC battery (installed) Protective holster, belt clip and manual	●	●(50BK x 2 pcs.)	●	●(50BK x 2 pcs.)

Specifications subject to change without notice.