

YF-160A Digital Thermometer

is designed and built according to EN 50081-1 and EN 50082-1 pass the European emissions standard and Generic European immunity standard.



ACCESSORIES

- User's manual
- Carrying case
- TP-03 thermocouple
- 9V Battery x 1pc

POWER SUPPLY

- Battery type: 9V NEDA 1604 IEC 6F22 JIS 006P x 1pc.
- Battery life: About 200 hours.

OPERATION CONDITION

- Operation temperature & humidity: 0°C~50°C (32°F~122°F), below 80% RH.
- Storage temperature & humidity: -10°C~60°C (10°F~140°F), below 80% RH.

DIMENSION

- Size : 143 x 74 x 34mm (L x W x H)
- Weight: About 226g (including battery)

DISPLAY

- 3 1/2 digits LCD with maximum reading 1999, plus decimal point, unit symbol indication.
- Low battery indication: Replace battery immediately when LCD displays " ㊟".
- Polarity indication: Automatic polarity, "-" display for negative input.

FUNCTIONS

- K type thermocouple with high accuracy range of -50°C~1300°C (-58°F~1999°F)
- Alternative measuring by °C or °F
- Function keys: ON/OFF, Data Hold, °C, °F, 0.1°, 1.0°.
- Semiconductor automatic cold joint compensation.
- Suitable for electric engineering, freezing, air conditioning, food processing fields as well as surface temperature, metal, steel, electricity, chemical, ship building, synthetic resin process and metal heat process or other temperature control/management fields.

SAMPLING SPEED

- Sampling rate: 2.5 times per second.

SPECIFICATIONS

Accuracy: \pm (.....%rdg +°C) at 23°C \pm 5°C, below 80% RH.

	Test Range	Resolution	Accuracy
°C	-50°C~1300°C	0.1°C	-50°C~0°C: \pm (0.5%+1°C)
			0°C~199.9°C: \pm (0.3%+1°C)
		1°C	-50°C~300°C: \pm (0.5%+1°C)
			301°C~1000°C: \pm (0.3%+1°C)
°F	-58°F~1999°F	0.1°F	-58°F~1999°F: \pm (0.3%+2°F)
		1°F	-58°F~1999°F: \pm (0.3%+2°F)

The tolerance of temp. probe excluded

* Max. input voltage for thermocouple: DC60V, AC24V.

Specification of temperature excluded

ITEM	TYPE			
	TP-01	TP-02	TP-03	TP-04
Thermocouple material	K (CA) NiCr/NiAl alloyed thermocouple			
Contact type	Insulation type	Ground type	Exposed type	Ground type
Accuracy classification	JIS C1602 classification 0.75			
Size	3.2 ϕ x 150mm	10 ϕ (top) x150mm	Bead	15 ϕ x1 00mm
Max. temperature	1832°F/1000°C	1832°F/1000°C	392°F/200°C	1832°F/750°C
Min. temperature	-58°F/-50°C	-58°F/-50°C	-58°F/-50°C	-58°F/-50°C
Compensating lead-wire	(-20 to 90°C) 1m approx.		1m approx.	(-20 to 90°C) 1m approx.
Handhold	Max. allowable Heat:150°C Size:12 ϕ x100mm			Max. allowable Heat:150°C Size:12 ϕ x 90mm
Sensor	K (CA) NiCr/NiAl alloyed thermocouple			
Application	Available for liquid or gel	Available for front or plate	Available for complex or any place hard to enter	Available for precise surface

* TP-03 is a K type thermocouple isolated by TEFLON. Max. insulation temp. is 260°C, Accuracy is \pm 2.2°C or \pm 0.75% (0°C to 200°C).