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Thermometers







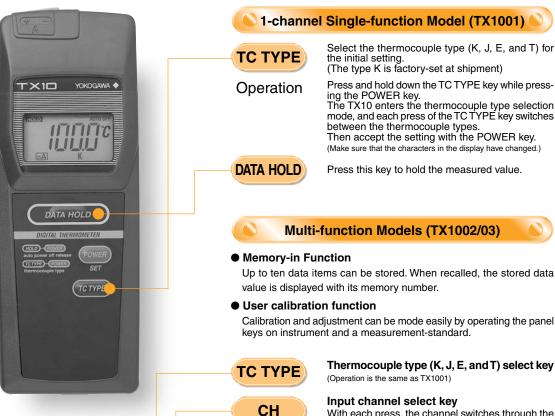


Simplicity Allows for Ease of Use

Series of Digital Thermometers

TX10 Series offers thermocouple thermometers that support K, J, E and T type thermocouples. There are three models available: 1-channel single-function, 1-channel multi-function, and 2-channel multi-function models.





(TX1003 only)







With each press, the channel switches through the sequence of "chA," "chB," and then "chA-chB

Data hold key

A held measured value, can be stored in the memory of an optional memory number, which is selected with the \blacktriangle , \blacktriangledown keys.

· Maximum and minimum record key

Stores the maximum and minimum values from the time the RECORD key is pressed.

Data record key

Stores the held measured value in memory. (Up to

Resolution select key

With each press, resolution alternates between 0.1 C and 1 C. (Within the range of -200.0 C to 199.9 C)

Maximum and minimum values, and stored data read key

Every time this key is pressed, the maximum and minimum values, stored data, and the current measured data are displayed in sequence.

Relative display select key

Displays measured values with reference to the value obtained immediately before this key was pressed (relative value). Each press of this key can select or release the relative display.

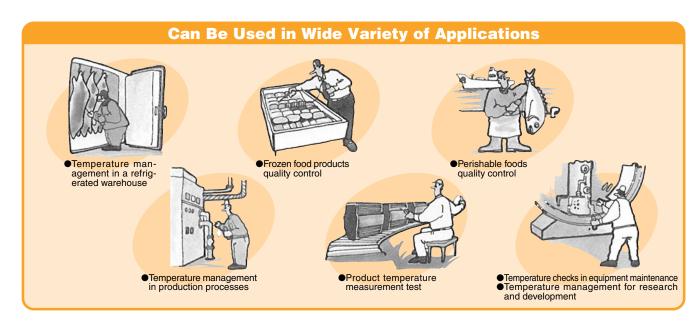
· Simplified correction mode key

Sets the correction value, and selects active/inactive of the simplified correction function.

▲, ▼ Data call-up key

Used to select a memory number when calling up stored data. Also used to adjust the correction value for simplified correction mode.

(Shown above is the TX1003. The TX1002 has no CH key.)



	Digital Thermometer			
Product name	Single-function, 1 channel	Multi-function, 1 channel	Multi-function, 2 channels	
Model	TX1001	TX1002	TX1003	
Number of input channels		1	2	
Measuring range	Thermocouple type Type K: -200°C to 1372°C Type E: -200°C to 700°C			
(only the main unit)	Type J: -200°C to 1000°C Type T: -200°C to 400°C Type T: -200°C to 400°C			
	-200.0°C to 199.9°C: 0.1°C			
Resolution	200°C or above: 1°C	+200°C or above: 1°C	in 1 C (when 1 C resolution is set)	
Accuracy (only the main unit)	$ \begin{array}{lll} -200.0^{\circ}\text{C to -}100.1^{\circ}\text{C}: & \pm (0.1\% \text{ of rdg} + 1.0^{\circ}\text{C}) \\ -100.0^{\circ}\text{C to 199.9^{\circ}\text{C}}: & \pm (0.1\% \text{ of rdg} + 0.7^{\circ}\text{C}) \\ +200^{\circ}\text{C or above, or when 1^{\circ}\text{C resolution is set:}} & \pm (0.2\% \text{ of rdg} + 1^{\circ}\text{C}) \end{array} \right. \\ \begin{array}{lll} *\text{Accuracy of reference junction} \\ \text{compensation is included } \pm 0.4^{\circ}\text{C} \\ when the temperature of the inputer in the remarks in the permitted of the inputer in the remarks in the remark$			
Temperature coefficient	± (0.015% of rdg +0.06°C)/°C			
Measurement interval	Арргох	. 1 sec.	Approx. 1 sec. (1 channel measurement) Approx. 2 sec. (2 channel measurement)	
Data storage	None	Capable of storing up	to 10 measured data items	
Simplified correction	None		20°C of measured value	
Display items	HOLD,°C, ch A, TC type K, J, E, T, Battery alarm	HOLD, RCD, REL, ADJ, MAX, MIN, MEM, ChA, TC type K, J, E, T Battery alarm	HOLD BCD BEL AD LMAY MINI MEM °C	
Other functions	Auto power-off, battery alarm			
Display	LCD			
Operating temperature and humidity	0°C to 50°C, 20 to 80% RH (no condensation)			
Power requirements	Two AA-size alkaline dry batteries (LR6)			
Battery life	About 450 hours			
Drip-proof construction	Conforms to IP54 (dust-proof and drip-proof requirements of IEC529)			
Compliance with standards	EMC standards EMI (interference signal): EN55011;1998, EN61326-1;1998+A1 (Class B, Group 1) EMS (immunity): EN50082-1;1997, EN61326;1998+A1			
External dimensions	Approx. 151(H) × 56(W) × 33(D) mm (excluding protrusions) Weight: Approx. 180 g (including batteries)			
Supplied accessories	Two AA	-size alkaline dry batteries (LR6) and instruct	ion manual	
Optional accessories	Temperature probes (for K type thermocouple) Rounded end probe (90020B, 90021B, 90022B) Needle probe (90023B, 90024B) Surface probe (90030B, 90031B, 90032B, 90033B) Bead TC (90029B) Extension cable 5 m (245921) /10 m (245922) Soft case (93012)			
		pof cover (5-per package) (93011)		

Specifications of Accessories

Probes for TX10 Temperature Probe (for type K) Model Probe type Measuring range Tolerance 90020B rounded end -50 to 600°C 90021B rounded end -50 to 600°C 0.4 φ1.6 / 150 1.2 m T < 375°C: ±1.5°C 375°C ≤ T: ±0.004 × T°C 90022B rounded end -50 to 600°C 1.4 φ3.2 / 500 1.2 m 90023B needle -50 to 500°C 0.4 φ1.6 / 100 1.2 m 90024B needle -50 to 500°C φ2.1 / 100 1.2 m (T-Ts) ≤ 100°C: ±2.5°C 100°C < (T-Ts): -0.03 × T°C to +2.5°C T: -20°C to 250°C, Ts: 0°C to 40°C 90030B Surface straight -20 to 250°C 1.2 m 2 φ15 (temp. sensing portion) 90031B Surface angled -20 to 250°C 2 φ15 (temp. sensing portion) 1.2 m (T-Ts) < 333°C: +2.5°C 333°C ≤ (T-Ts): +0.0075 × T°C (T-Ts) < 167°C: -2.5°C 167°C ≤ (T-Ts): -0.015 × T°C T: -20°C to 500°C, Ts: 0°C to 40°C 90032B Surface straight -20 to 500°C $\phi 15 \text{ (temp. sensing portion)}$ 1.2 m

±2.5°C (90% response)

NOTE: 90030 is using polyimide to insulate from objects to be measured.

Manufacturers of polyimide are announcing not to apply polyimide directly for food, internal and body fluid.

φ15 (temp. sensing portion) 1.2 m

1200 (included cord)

Optional Accessories for TX10

Product name	Model	
Temperature probe (for type K)	90020/21/22/23/24/30/31/32/33	
Bead TC (for type K)	245907	
K-shape connector	99009	
U-shape connector (for input voltage) (for TM20 only)	99008	
Extension cable (5 m)	245921	
Extension cable (10 m)	245922	
Soft case	93012	
Waterproof cover (5 per package) (for TM10, TM20, TX10)	93011	

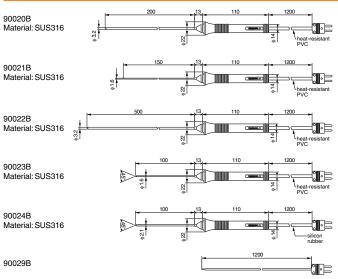
NOTE: Please purchase commercially available thermocouples (Type-E/J/T), connectors and extention cables.

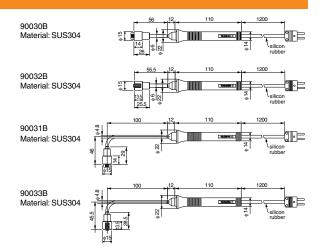
External Dimensions for 900 series

-40 to 260°C

90033B Surface angled -20 to 500°C

90029B Bead TC







-MOTICE ·

 Before using the product, read the instruction manual carefully to ensure proper and safe operation.