Precision Digital Thermometer Model SK-810PT

SK-810PT is a precision digital thermometer. This thermometer will replace the mercury filled glass thermometers that have been used as standard until now.

Features

- **High resolution**

  Displays temperature readings with 0.01°C in the range of -100 to 360°C.

- **Excellent accuracy with PT100 sensor**

  The sensor has a platinum resistance temperature detector (Pt100, 4-wire). Maximum accuracy of ±0.16°C in the whole range.

- **Selectable six optional probes appropriated for specific range**

  Six types of highly-accurate, long-term stable probes are provided each designed for a specific temperature range of low, medium or high.

- **Various calculation function**

  The maximum (MAX), minimum (MIN), relative (REL) and moving average (AVG) values can be displayed.

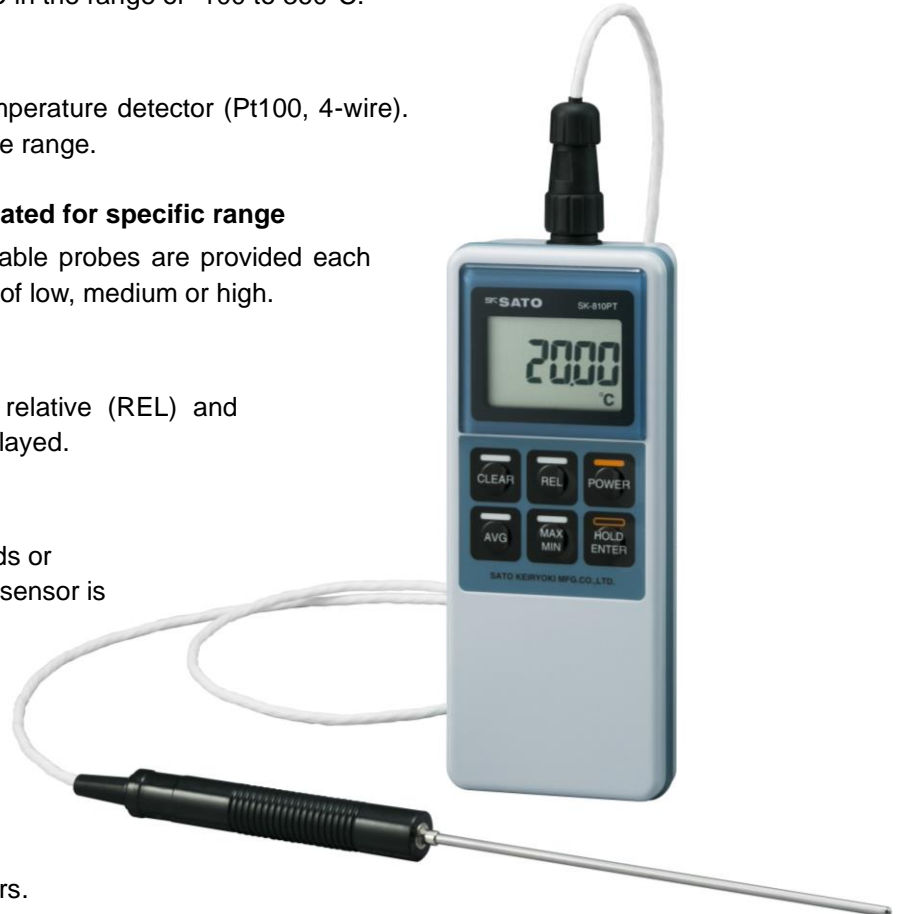- **High waterproofness (IPX7 compliant)**

  The main unit can be touched by wet hands or splashed with water without risk when the sensor is securely connected.

- **Runs for up to 1000 operating hours**

  1000 hour-measurement is available with four AAA alkaline batteries.

- **Functional, Durable and Stylish design**
  - The display uses large numeric characters.
  - The body tilts at about seven degrees when placed on a desktop.
  - The wall-mount hook can be pulled out when necessary, so the design remains flat.
  - Damage due to dropping is minimized by the protective rubber around the case.

Front view

Side view

Rear View

Specifications

Cat. No.	No.8012-00
Model	SK-810PT (main unit only)
Display range	-105.00 to 365.00°C
Resolution	0.01°C
Accuracy	±(0.05°C+1digit) at 23°C±5°C (Total accuracy is different depending on the probe connected)
Temperature coefficient	±(0.002%rdg+0.008)°C/°C at other than 23°C±5°C
Waterproof property	Conforming JIS C 0920 IPX7 (when probe is connected)
Main functions	Max. value(MAX), Min. value (MIN), Measurement of variation(REL), Moving average(AVG)
Power	AAA size alkaline battery x 4 pcs.
Materials	ABS resin
Dimensions & weight	(W)70×(H)169×(D)42mm (exclusive of connector) Approx. 220g (inclusive of batteries)
Accessories	AAA size alkaline battery x 4 pcs vinyl cover, neck strap, instruction manual

Optional probes

The optional probes can fully show the performance of the SK-810PT digital thermometer. In order to stably use for a long period, the probes are specified for low, medium, and high temperature ranges. The general purpose type covered -100 to 200°C is also provided.

The sensing element is a platinum resistance temperature detector (Pt100, 4-wire) that ensures a maximum accuracy of ±0.16°C in each range by memorizing the characteristics of the individual element in the sensing part and having correction in the internal circuit of the main unit.   The probes are completely compatible with SK-810PT

Range	For Lower Temperature		For Medium temperature		For High temperature		General purpose type
Handhold shape	Grip	Sleeve	Grip	Sleeve	Grip	Sleeve	Grip
Cat. No.	8012-30	8012-50	8012-32	8012-52	8012-34	8012-54	8012-10
Model	S810PT-30	S810PT-50	S810PT-32	S810PT-52	S810PT-34	S810PT-54	S810PT-10
Range	-100.00 to 50.00°C		0.00 to 200.00°C		150.00 to 360.00°C		-100.00 to 200.00°C
Accuracy	±0.10°C						±(0.15 + 0.002|t|)°C |t|=absolute temperature
Waterproof Property	Compliant to IPX7 (connected with probe)	---	Compliant to IPX7 (connected with probe)	---	Compliant to IPX7 (connected with probe)	---	Compliant to IPX7 (connected with probe)
Element	Pt100 (4 wires)						
Materials — Sensing part	SUS316						SUS304
Materials — Handhold	SUS304						Phenol resin
Materials — cord	silicone coating						Flourine resin coating
Dimension — Sensing part	ϕ3.2×250mm round end				ϕ3.2×300mm round end		ϕ3.2 x 150mm round end
Dimension — Handhold	ϕ18×107mm	ϕ8×40mm	ϕ18×107mm	ϕ8×40mm	ϕ18×107mm	ϕ8×40mm	ϕ15 x 100mm
Dimension — Cord length	1.5m						1m
Weight	208g	65g	208g	65g	210g	67g	80g