



Specifications

8ch temperature logger	LT-200SA		LT-200SB	
	Temperature measurement 8ch		Temperature measurement 4ch + voltage measurement 4ch	
Temperature resolution	thermistor 1/1000°C	PT1000	1/100°	
Resistance measurement range	300 ~ 1MΩ			
Voltage measurement range	± 1.0V or ± 10.0V (factory setting)			
Measurement cycle	200m seconds, 500m seconds, 1, 2, 3, 5, 10, 20, 30 seconds 1, 2, 3, 5, 10, 20, 30 minutes, 1, 2 hours			
storage capacity	Approximately 260,000 points Approximately 72 hours at 1 second cycle			
Built-in lithium battery	5 days at 5 second intervals			
Charging time	USB use: 12 hours, DC plug (5V input EIAJ2) 2.5 hours			
Dimensions (H x W x D)/Weight	103 x 79 x 30mm 350g			

measurement system	LT-200F	LT-200H
	2 racks, 27 modules, 216 points measurement	1 rack, 13 modules, 104 points measurement
Standard configuration	Temperature 8ch x 26 Temperature 4ch Voltage 4ch x 1	Temperature 8ch x 12 Temperature 4ch Voltage 4ch x 1
Module type	Temperature 8ch, temperature 4ch + voltage 4ch, voltage 8ch, DA module	
DA module	8 channels of DA output, 2 channels of contact output, real-time calculation of weighted average	
Measurement cycle	200m seconds, 500m seconds, 1, 2, 3, 5, 10, 20, 30 seconds 1, 2, 3, 5, 10, 20, 30 minutes, 1, 2 hours	
storage capacity	Approximately 520,000 points Approximately 145 hours at 1 second cycle	
Built-in nicad battery	10 hours at 5 second intervals	
Charging time	DC plug (12V input EIAJ4) 10 hours	
External dimensions (H x W x D)	133 x 483 x 343mm x 2	133 x 483 x 343mm
		

Common specifications	
Usage environment	5 to 35°, 20 to 80%RH (no condensation)
Connected PC	Windows XP, VISTA, 7, 10, 11 (USB connection)

Option

Sensitivity evaluation input device LT-SEI	Main specifications	Input button x 11, expansion terminal x 1, buzzer ON/OFF, DC jack accessories
		3.3VAC adapter Ø 5.5 x 2.1 plug, LT-200 connection cord

4ch humidity unit LT-2HM4	Main specifications	Humidity sensor x 4, output voltage 0 to 1 V (100%), 9V battery operation

Contour plot software LT-TGS	Main specifications	Maximum number of input points is 216, position specification matrix and arbitrary Color contours, color filling, and real-time drawing possible Draw the maximum, minimum, average, and integral values (+, -, ±) of the time range Maximum temperature and position estimation function, simulation function by changing some temperatures

temperature sensor (Total length including lead wire is 3m)	① LT-2N-01	stainless steel reference sensor	5.0 Φ × 500L
	② LT-2N-02	Teflon reference sensor	3.8 Φ × 1000L
	③ LT-2Y-01	stainless steel sensor	3.2 Φ × 200L
	④ LT-2Y-02	Ultra-fine stainless steel sensor	1.6 Φ × 200L
	⑤ LT-2N-00	air temperature sensor	3.4 Φ × 500L
	⑥ LT-2N-12	skin temperature sensor	5.0 Φ disk × 500L
	⑦ LT-2N-11	rectal temperature sensor	3.7 Φ × 500L
	⑧ LT-2N-13	earplug type sensor	
	⑨ LT-2T-01	teflon sensor	3.0 Φ × 500L
	⑩ LT-2T-02	Ultra-fine Teflon sensor	1.0 Φ × 500L

The sensor itself remembers calibration information

LT-200 Series

High-performance thermometer

● synchronous measurement of
● up to 216 channels



● R-T table automatic reading

● Stores highly accurate calibration information

● Equipped with a temperature converter for each channel and a variety of thermistor sensors. You can use it. Between sensors measured and calibrated with a temperature resolution of 1/1000° Interchangeability accuracy is ± 0.01°.

● 8ch logger also has high performance



● Even when used alone, the uses are endless. If you install it in a rack operates as a unit of temperature measurement system.

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It's multi-functional so it's versatile!

It can be used in a variety of ways, including biological environment, high temperature range, and temperature measurement. Dynamic temperature distribution can be measured with high precision and a wide variety of options are available to suit your application. The LT-200series is compatible with a variety of usage environments.

8ch temperature logger

- LT-200SA _____ Temperature 8 points
- LT-200SB _____ 4 temperature points + 4 voltage points
A humidity sensor can be connected to the voltage input
- LT-2HM4 _____ 4ch humidity unit (optional)



103H x 79W x 30D mm
(Does not include sensor)

Temperature resolution 1/1000°

Equipped with independent temperature converters for all channels, enabling simultaneous time measurement in millisecond units.
(With a variation of 1°C/sec, a difference of 1 msec is 1/1000°C)
The temperature converter has a single range, so there is no discontinuity in measured values.
At low power settings, 1/1000°C can be measured with 10 μW, making it possible to measure temperature with high accuracy.
The average power consumption is 1 μW or less in a 2-second cycle, suppressing errors caused by self-heating.

The sensor itself stores calibration information.

Interchangeability accuracy of ± 0.01° (calibration temperature) is achieved using an ITS-90 compliant SPRT and a high-precision constant temperature chamber.
Reads calibration and R-T data from the sensor at startup. (Cannot be changed externally) Eliminates incorrect settings that can easily occur with multiple sensors.
Since the temperature sensor has calibration information on its two wires, it can be used in combination with general sensors.

Various thermistors and PT1000 can be used.

The main thermistors are already registered in the LT-200, and inexpensive sensors can also be used. Even unregistered thermistors can be set using the R-T table, Steinhart-Hart, or B constant. Any thermistor can be used.
The PT1000 can measure a wide temperature range up to high temperatures that cannot be achieved with thermistors.

Highly accurate self-calibration possible using an inexpensive thermostat

Because all channels are measured simultaneously, highly accurate calibration is possible even when using a constant temperature bath with temperature fluctuations.

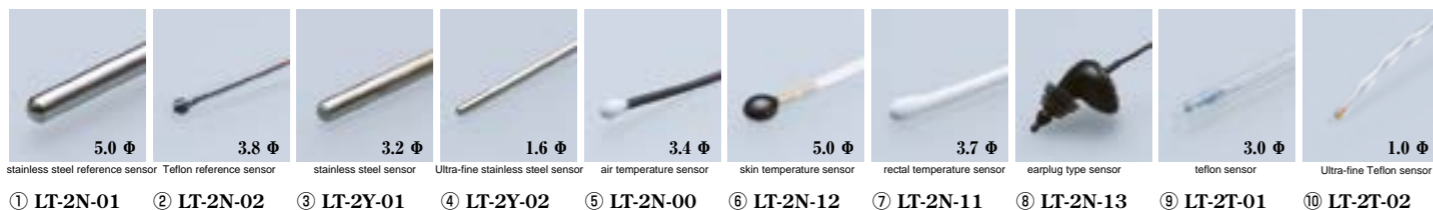
Other sensors can be calibrated based on the calibrated sensor, ensuring high accuracy.

Diverse external control functions

You can record in synchronization with an external signal, or record only during the period when the signal occurs. Records the event signal occurrence time in 0.1 second increments along with 4-bit information. An emotional evaluation input device that can record the emotional evaluation of the subject can be connected. (option)

Variety of thermistors

temperature sensor



LT-200H

temperature measurement system

Single logger LT-200S can be installed in the rack

Real-time display of contour maps of up to 216 points (optional)

You can draw a contour map by specifying the positions of up to 216 points and understand the temperature distribution at a glance. The maximum temperature and its location are estimated and displayed from the contour map. There is a simulation function that allows you to change some of the measurement results and check the distribution.

Upper and lower alarm limits can be set for each channel.

An alarm will be issued with a buzzer sound and the color of the numerical table. If you use a DA output unit, an alarm will be issued at the average temperature.

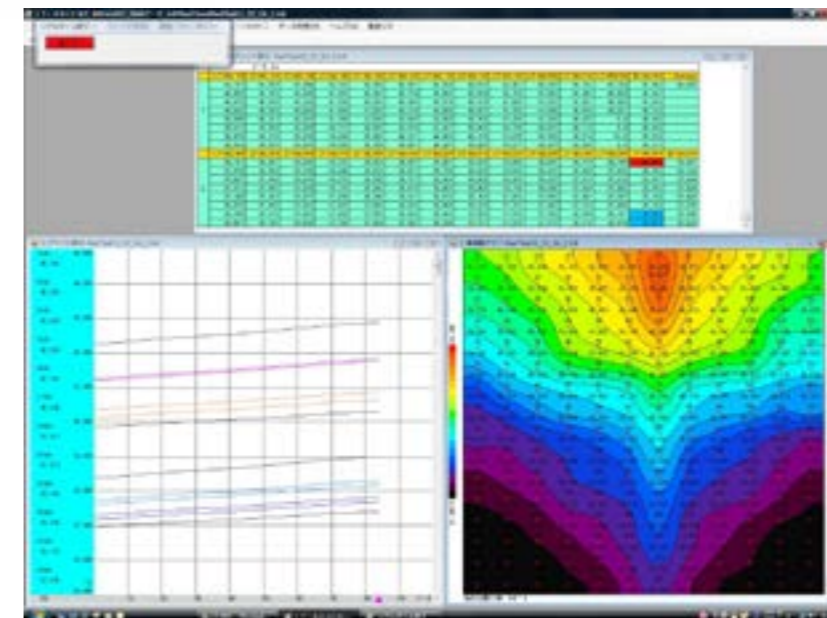
DA output unit (optional)

Displays the average temperature with weighting factors in real time. (Recorded during measurement)
Outputs the calculated average temperature to DA. (Can be recorded with 8ch recorder)
Contact output occurs when the temperature is higher or lower than the specified temperature. (2ch)

Freely select units to be installed in the rack

You can freely select the number of units installed in the rack from 1 to 27.

LT-200F
216ch
LT-200H
104ch



Type of unit
Displayed in
different colors

Realistic display of
temperature distribution

Sensitivity evaluation input device LT-SEI

In addition to the two types of sensations, one piece of other information is given on a five-point scale.

By adding an external button, you can input two more points. Make a buzzer sound to confirm that the button has been pressed You can also.

