

## Thermo/Humidity Recorders

### THERMO RECORDER

JP

Order No.	Model No.	Specification	Measuring Range (°C)	JPY	Ref.No
1-5622-01	MR5300	Main Body	-40~60.0~100.50~150	¥ 19,800	044655
1-5622-11	MR9301	External Temperature Sensor	-40~60 (sensing section $\phi$ 5×30mm·lead wire 600mm)	¥ 2,500	044665
1-5622-12	MR9302		0~100 (sensing section $\phi$ 4×30mm·lead wire 600mm)	¥ 4,200	044665
1-5622-13	MR9303		50~150 (sensing section $\phi$ 4×30mm·lead wire 600mm)	¥ 4,200	044665
1-5622-14	MR9504	Data Reading Device		¥ 13,400	044665

※ Temperature sensor with outside is not attached to main part.  
 ※ Time base range at the time of built-in sensor use is -20~55°C.

- Feature**
- Temperature of maximum of 6000 data can be recorded.
  - Temperature sensors are built-in and change type with outside (option).
  - Since it is protection-against-dust drip-proof structure of IP64, it can wash in cold water.
  - Account adjusting function in which temperature can multiply only with main body without personal computer has been equipped normally.

**Specification**

Model No.		MR5300
Accuracy	Temperature	±0.5°C ± 1digit (-5~50°C), ±1°C ± 1digit (Other)
	Humidity	—
No. of Inputs		1 point
No. of Data Entries Recorded		6000 (at 60minutes interval · approx.8months)
Communication Function		Standard Equipment (connected to computer via data reader)
Integration Function		H Integration or L Integration
Dimensions · Weight		54 × 110 × 20.5mm · approx.95 g
Power Supply		AAA Battery × 2 (included for testing)



MR5300

Data Reading device



**Data Reader Specification**

- Applicable OS : Windows\*XP/Vista\*/7/8
- Communication Method : Between Card and Data Reader / Non-contact Infrared Method, Between Data Reader and PC / USB Ver.2.0 compliance
- Dimensions : 59.5 × 31.5 × 107mm
- Weight : approx.180 g

### DATA LOGGERS (Temperature · Temperature/Humidity Model)

JP

Order No.	Model No.	Specification	Dimensions (mm)	JPY	Ref.No
1-5840-31	LR5001/ Temperature-Humidity Logger	Body	79×28×57	¥ 26,000	044670
1-5840-32	LR5011/ Temperature Logger		79×37×60	¥ 15,000	044670
1-5840-33	LR5021/ Temperature Logger (Thermocouple)			¥ 29,000	044670
1-5840-41	LR9501/ Temperature-Humidity Sensor	For LR5001	Sensor / 13×30, Cord Length / 1m	¥ 11,000	044680
1-5840-42	LR9601/ Resin Mold Temperature Sensor		Sensor / $\phi$ 6×28, Cord Length / 1m	¥ 3,800	044680
1-5840-43	LR9604/ Resin Mold Temperature Sensor		Sensor / $\phi$ 6×28, Cord Length / 0.45m	¥ 3,800	044680
1-5840-44	LR9621/ Sheath Type Temperature Sensor	For LR5011	Sensor / $\phi$ 4×180, Cord Length / 1m	¥ 5,000	044680
1-5840-45	LR9631/ Needle Type Temperature Sensor		Sensor / $\phi$ 1.3×25, Cord Length / 1m	¥ 8,000	044680
1-5840-46	LR5092/ Data Collector	Body * Inner Parts Memory * SD Card * PC	91×31×141	¥ 39,000	044680
1-5840-47	LR5091/ Communication Adapter	Body * PC	83×19×61	¥ 4,000	044680
1-5840-48	LR9691/ K Thermocouple Connector	For LR5021	17×20	¥ 1,000	044680

**Specification**

- Interface : Infrared Communication · USB2.0 Only (LR5092 · 5091)
- Indoor only (LR5092 · 5091 only)
- Accessories : USB Cable (1m) · Utility for LR5000 (LR5092 · 5091 only)
- <Sensor> ● Measuring Range : LR9501 / -40~ +85 °C (temperature) · 0~100 % RH (humidity), LR9601 · 9604 / -40~ +180 °C (temperature), LR9621 · 9631 / -40~ +120°C (temperature) ● Waterproof Protection Grade : JIS C0920 (LR9601 · 9604 only)
- <LR5092 / Data Collector> ● Memory : Inside / 60000 Data (instant value) · 15000 Data (statistics value) × 16ch of each. External / SD Card (max. 32GB) ● Power Supply : AA Battery × 2pieces (included for testing) or Supply from USB ● Weight : 213 g (excluding battery)
- <LR5091 / Communication Adapter> ● Power Supply : Supply from USB ● Weight : 43 g

Model No.	LR5001	LR5011	LR5021
No. of Channels	Temperature · Humidity × 1ch of each	Temperature × 1ch	Temperature × 2ch
Measuring Range	Temperature / -40.0~ +85.0°C, Humidity / 0~100% RH	-40.0~ +180.0°C	-40.0~ +200.0°C (200°C) · -40~ +800°C
Memory	Instantaneous Value / 60000 data, Statistical Value / 15000 data (instantaneous · max.min. · average values)		
Interface	Infrared Communication (LR5091 · 5092)		
Applicable OS	Windows*XP (SP2 or later) / Vista* (SP1 or later) / 7		
Power Supply	AA Battery × 1 (included)		AA Battery × 2 (included)
Accessories	Temperature and Humidity Sensor (LR9504) · Stand	Stand	—
Dust/Waterproof	IP54		



LR5001/ Temperature-Humidity Logger

LR5011/ Temperature Logger



LR5021/ Temperature Logger (Thermocouple)

LR5092 / Data Collector



LR9501/ Temperature-Humidity Sensor

LR9601/ Resin Mold Temperature Sensor

LR9604/ Resin Mold Temperature Sensor

LR9621/ Sheath Type Temperature Sensor

LR9631/ Needle Type Temperature Sensor

**Feature**

- With data collector and communication adapter, possible to transfer data to PC while recording.
- Possible to save and graph, process data and print by PC.

1 Laboratory Equipment

2 Measuring Equipment

3 Laboratory Furniture

4 Life Science and Analysis

5 Bottles and Containers

6 Laboratory Related Tools and Fixtures

7 Cleaning and Sterilization

8 Safety Protection Supplies

9 Clean Environment Equipment

A Balances

B Thermometers and Hygrometers

C Data-Loggers and Recorders

D Water and Soil Analysis

E Air and Gas Analysis

F Natural Environment Analysis

G Electrical Measuring Equipment

H Physical Property Measuring Equipment

I Microscopes

J Fiber Scopes and Loupes

K Lasers / Optical Equipment

L Measuring Tools