

SK-L750 SERIES DATALOGGERS

No. 8800-00 DATALOGGER MODEL SK-L751 Temperature measurement type

No. 8870-00 DATALOGGER MODEL SK-L754 Temperature/humidity measurement type



FEATURES

- The memory capacity is 16000 data items per channel.
The data of approx. 2 years and 9 months can be stored with logging interval of 90 minutes
- The storing data method is selectable from four logging options; "Once", "Repeatedly", "Ends at..." and "By pages".
- Logged data can be copied to microSD card.
- Data analysis software and real-time transmission software can be downloaded from our website.
- By using the data analysis software, the acquired data can be evaluated easily and quickly, and also evaluated by using spreadsheet software supporting CSV extension such as Microsoft Excel.
- The measurement data can be transmitted in real-time to a personal computer.
- The date and time to start logging automatically can be specified by setting the preset start.
- The upper and lower thresholds for warning can be set. When the temperature or humidity threshold is triggered, the alarm mark (Hi/Lo) and alarm lamp will light.
- The storage memory can be verified with the memory indicator.
- The logging interval can be selected from 14 options: 1 sec, 2 sec, 5 sec, 10 sec, 15 sec, 30 sec, 1 min, 2 min, 5 min, 10 min, 15 min, 30 min, 60 min and 90 min.
- Even if batteries run out, the data will not be lost. Measured data is saved in the internal memory.
- The datalogger ID (6 digits) can be set. It helps you identify multiple dataloggers.
- The probes are interchangeably used with the main units.
- The power supply can use both of batteries and an AC adapter (option).

1. Main Units



SPECIFICATIONS

Cat. No.	8800-00	8870-00
Model	SK-L751 (Temperature measurement)	SK-L754 (Temperature and humidity measurement)
Measuring channel	2 channels for temperature	1 channel each for temperature & humidity
Measuring range	Depends on the probe connected	
Resolution	0.1°C	0.1°C / 0.1%rh
Display Accuracy	±0.2°C (0 to 40°C) ±0.3°C (other than above)	Temp.: ±0.2°C (0 to 40°C) ±0.3°C (other than above) Humid: ±0.2%rh (0 to 40°C) ±0.3%rh (other than above)
Temperature unit (°C/°F)	Temperature unit switch (Celsius/Fahrenheit) is equipped	
Display sampling	Approx. 1 second	
Display	Temperature/Humidity Alarm (ALM), logging option, status display (REC /RES), memory indicator (in bars), SD memory, low battery indicator, key-lock mark, error codes, setting value at each setting	
Memory capacity	16,000 data items for each channel	
Logging intervals	14 options: in seconds (1, 2, 5, 10, 15, 30) and in minutes (1, 2, 5, 10, 15, 30, 60, 90)	
External memory	microSD/SDHC up to 32GB	
Operating ambient	-10.0 to 60.0°C, lower than 85%rh (no condensing)	
Storage ambient	-10.0 to 60.0°C, lower than 85%rh (no condensing)	
Power requirement	Two AA alkaline batteries or AC adapter	
Battery life	Approx. 500 hours in continuous measurement mode 16,000 data items can be logged at any logging interval (When LCD is off)	
Dimensions	Approx. 114 (W) x 80 (H) x 35 (D) mm (exclusive of protrusions)	
Weight (approx.)	232 g (inclusive of batteries)	227 g (inclusive of batteries)
Waterproof property	IP65 (when w/-sensor-cord-type probe connected)	-----
Standard accessories	USB cable, 2 AA alkaline batteries, instruction manual	

2. Optional Probes for SK-L751 Datalogger (Temperature measurement)



No.8810-01 Model SK-L751-1
Plug-in type



No.8810-02 Model SK-L751-2
W/-sensor-cord type



Sleeve type
No.8810-21 Model SK-L751-21
No.8810-22 Model SK-L751-22 (Silicone cable) *3



Immersion type
No.8810-31 Model SK-L751-31
No.8810-32 Model SK-L751-32 (Silicone cable) *3

SPECIFICATIONS

Cat. No.		8810-01	8810-02	8810-21	8810-22	8810-31	8810-32
Model		SK- L751-1 Plug-in type	SK- L751-2 W/-sensor-cord	SK- L751-21 Sleeve type	SK- L751-22 Sleeve type *3	SK- L751-31 Immersion type	SK- L751-32 Immersion type *3
Measuring range		−10.0 to 60.0°C	−40.0 to 80.0°C	−40.0 to 80.0°C	−40.0 to 105.0°C	−40.0 to 80.0°C	−40.0 to 105.0°C
Accuracy	−40.0 to −10.0°C	-----	±0.5°C	±1.5°C			
	−9.9 to 60.0°C	±0.5°C (*2)		±0.6°C			
	60.1 to 80.0°C	-----					
	80.1 to 105.0°C	-----	-----	±0.8°C	-----	±0.8°C	
Sensing element		Thermistor					
Waterproof		-----	JIS C 0920 IP65 (*1)	JIS C 0920 IPX7 (*1)			
Materials	Sensing part	PC resin	SUS304	SUS304		SUS303	
	Grip	-----	-----	SUS303		-----	
	Connector	PVC resin					
	Cord	-----	PVC resin	PVC resin	Silicone	PVC resin	Silicone
Dimensions	Sensing part	Ø11 x 60(H) mm	Ø3.3 x 13(L) mm	Ø3 x 220(L) mm (point end)		Ø17 x 90(L) mm	
	Grip	-----		Ø7 x 55(L)mm		-----	
	Connector	Ø9 x 30(L) mm	Ø12 x 40(L) mm				
	Cord	-----	1.6 m	3 m		5 m	
Weight		Approx. 9 g	Approx. 23 g	Approx. 45 g	Approx. 90 g	Approx. 175 g	Approx. 240 g

*1 When probe(s) is connected with a main unit

*2 When the temperature is between −10.0 and 60.0°C

*3 Probes with silicone cables are make-to-order products. Also, we offer a variety of tailor-made probes not listed here. Visit our website for details.

3. Optional accessories

No. 8229-50 AC adapter for SK-L751 / SK-L754 Dataloggers

SPECIFICATIONS

Primary input voltage: 100 to 240VAC 50/60Hz

Plug : USB mini-B

Cord length : 1.5 m



No. 8229-60 Sensor filter (a pack of 4 pcs.)

No. 8229-61 Sensor filter (a pack of 20 pcs.)

Available for L754-1 and L754-2 Plug-in type probes

* Recommended for use in a dusty environment



a pack of 4 pcs.



Filter installed

4. Optional Probes for SK-L754 Datalogger (Temperature/Humidity measurement)



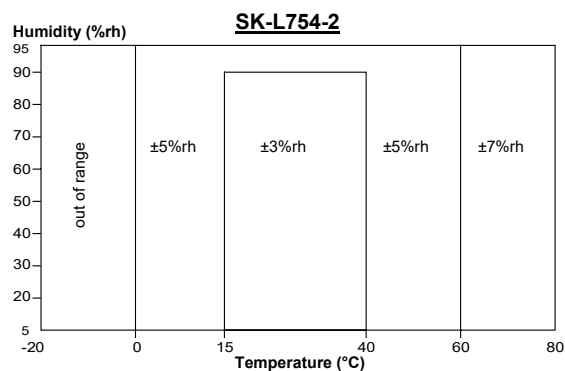
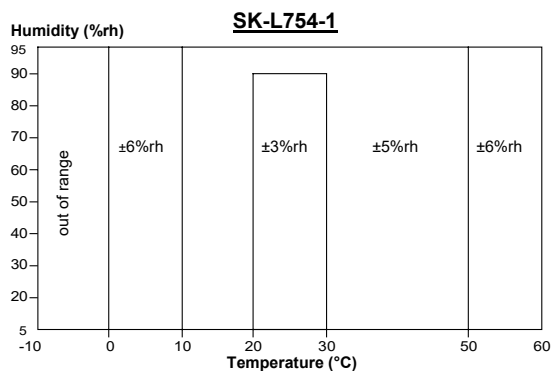
No.8880-01 Model SK-L754-1
Plug-in type



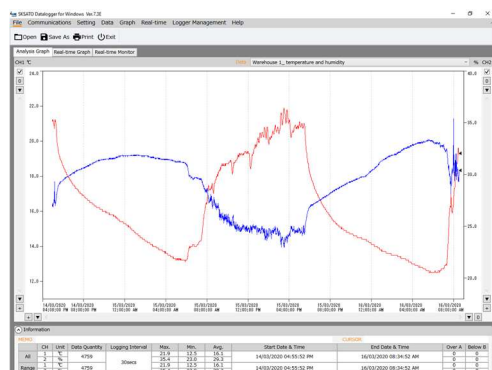
No.8880-02 Model SK-L754-2
W/-sensor-cord type

Cat. No.	8880-01		8880-02
Model	SK- L754-1		SK- L754-2
Measuring range	Temp.	-10 to 60.0°C	-20.0 to 80.0°C
	Humid.	5.0 to 95.0%rh	
Accuracy	Temp.	±0.5°C	
	Humid.	Refer to the graphs below	
Sensor	Temp.	Thermistor	
	Humid.	Capacitance humidity	
Materials	Sensing part	PC resin	
	Connector	PVC resin	
	Cord	-----	PVC resin
Dimensions	Sensing part	Ø11 x 60 (H) mm	Ø11 x (L)34 mm
	Connector	Ø9 x 30 (H) mm	Ø12 x (L)40 mm
	Cord	-----	1.6 m
Weight	Approx. 9 g		Approx. 35 g
Accessories	Sensor filter x 1		

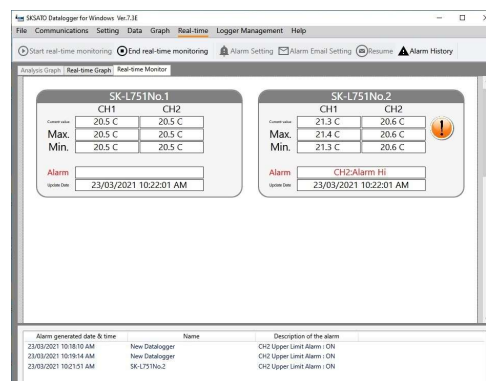
5. Accuracy of Humidity



6. Graph Displays on PC screens



Main Screen



Real-Time Monitoring