

ELECTRONIC DATALOGGER SATO SK-L200TH II

HM8020

DATASHEET

PRODUCT DESCRIPTION

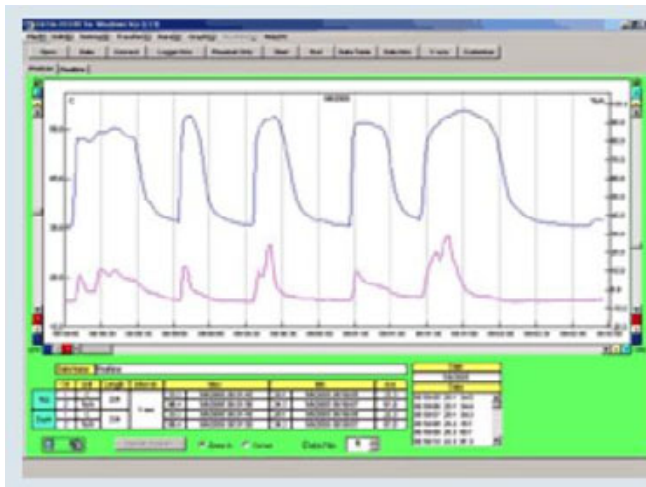
Extremely compact datalogger for recording temperature and air humidity. Complete with attached combiprobe (T/RV). A wire-combiprobe is optional. Directly programmable from the keypad or PC. Complete with attached combiprobe, USB cable and evaluation software.

**FEATURES**

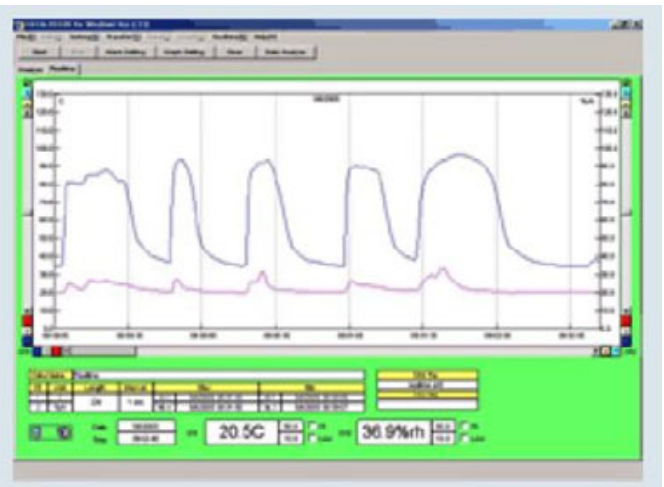
- Memory capacity is 8100 lines of data per channel. (It is possible to store the data for about 506 days with log interval of 90 minutes and about 168 days with log interval of 30 minutes.)
- The method of storing data can be selectable among four logging options :
 1. Once (default) When Once is chosen, the datalogger keeps logging until the memory becomes full. The datalogger stops logging when 8100 lines of data are recorded.
 2. Repeatability (overwriting) The datalogger overwrites the exsisting data from the start once the 8100 lines of data are recorded. This is ideal for collecting data during a certain period.
 3. Ends at (limited amount) With this logging option, you can specify the endpoint for the datalogger to stop logging. This setting is ideal when you want to limit the amount of data to be collected.
 4. By page (partitioning) The storage memory is partitioned into blocks, each having the capacity to store 200 lines of data. This enables the datalogger to perform four different tasks in sequence while storing each task s data in one of the four different memory blocks (pages). This is ideal when you want to collect data from multiple sites using one datalogger.
- The software for data analysis and realtime transmission is attached as standard accessories.
- The date and time to start logging automatically can be specified by setting the preset start.
- The measurement data can be transmitted in realtime to a personal computer.
- USB transmission is adopted .
- The upper and lower thresholds for warning can be set. When the temperature or humidity threshold is triggered, the alarm mark (Hi or Lo) will light.
- Probes are interchangeably used with main units. • The storage memory can be varified with the memory indicator.
- The log 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. • When the power is turned off, data stored in the EEPROM memory is retained.
- The datalogger ID can be set. This is useful to identify multiple dataloggers.

By using data analysis software attached, acquired data can be evaluated easily and quickly, and also evaluated by using commercial spreadsheet software supporting the "CSV"extertion such as Lotus 1-2-3 and Microsoft Excel.

SOFTWARE



By Data Analysis Software



By Real-Time Transmission Software

- By using software attached, logged data can be easily displayed as graphs on a PC.
- The data transmitted from up to 4 dataloggers (8 channels max.) can be analyzed being displayed in a graph.
- Downloaded data with the "CSV" extention can be evaluated by using Lotus 1-2-3, Microsoft Excel and other commercial spreadsheets.
- The highest value, the lowest value and average value per channel can be automatically calculated.
- The Scroll-bar function can zoom in on any region of the graphs that you want to.
- Minimum system requirements
OS: Windows2000 (upper version of SP 4), WindowsXP
Memory: More than 256MB
CPU: Pentium III 700MHz or better
Free disk space: more than 150MB Provide USB ports.



ART NO.

HM8020 Electronic datalogger Sato Sk-L200TH II

SPECIFICATIES

Model name	SK-L200THII (for temperature and humidity)
Display range	-15 to 65.0 C (depending on a probe connected)
	10 ~ 99.9%rh
Resolution(Temp.)	0.1 C at -9.9 to 65.0 C 1 C at -10 C or less
Resolution(Humi.)	0.1%rh at 15.0 to 99.9% rh 1%rh at less than 15.0%
Accuracy (Temp)	±(0.1 C + 1 digit)
Accuracy (Humi.)	±(0.1%rh + 1 digit)
Probes Connected	SK-LTHII series probes
Sampling(display)	About 1 sec
Display Functions	TIME (display time), INT (log interval) REC (during logging). RES (during preset standby), OUT (during real-time transmission), LCD bars (used memory) CALL (call for the current measurement data during logging) Current temperature, Current humidity, Current date and time, low battery symbol, Temp. upper limit (Hi), Temp. lower limit (Lo), Humi. upper limit (Hi), Temp. lower limit (Lo), Temp. alarm ON (Alarm), Humi. alarm ON (Alarm), logging option, setting value of upper and lower limits. error message, ID number
Memory capacity	8100 lines of data, but depending on the logging option (four logging options: Once, Repeatability, Ends at, By page)
Log interval	1sec., 2sec., 5sec., 10sec., 15sec., 30sec. 1min., 2min., 5min., 10min., 15min., 30min., 60min., 90min.
Communication	USB
Operation ambient	-10 to 60 C, no condensing
Storage ambient	0 to 50 C
Power requirement	AAA size Alkaline battery x 2
Battery life	. Under continuous measurement mode : more than 500 hours . Under logging mode: possible to log 8100 data with every log interval (ex.: about 506 days with log interval of 90 minutes.)
Dimensions	(W)100 _(H)73 _(D)22mm
Weights	About 123g (exclusive of batteries)
Materials	ABC resin
Accessories	CD-Rom (Data analysis software and realtime software), USB cable (1.5m) , USB port cap (factory set), hand strap, 2 batteries, Instruction manual

STANDARD PROBES

Model Name	 SK-LTHII-1 (Plug-in type)	 SK-LTHII-2 w/ sensor cord
Sensor (temp.)	Thermistor	Thermistor
Sensor (humi.)	High Polymeric Resistance change type	High Polymeric Resistance change type
Measuring range	-10 to 60.0 C 20.0 ~ 98%rh (at 23 C)	
Accuracy (Temp)	± 0.5 C at 20.0 to 30.0 C ± 1 C at other than above range	± 0.5 C at 15.0 to 35.0 C ± 1 C at other than above range
Accuracy (Humi.)	$\pm 3\%$ rh at 20.0 to 30.0 C (30 to 90%rh) $\pm 7\%$ rh at less than 10.0 C, higher than 50.0 C $\pm 5\%$ rh at other than above range	$\pm 3\%$ rh at 15.0 to 35.0 C (30 to 90%rh) $\pm 7\%$ rh at less than 10.0 C, higher than 50.0 C $\pm 5\%$ rh at other than above range
Demensions	W 25x H 70 x D 20mm	Sensing part: W 18x H 51 x D 10mm Cord Length: 1.5m
Weights	About 15g	About 65g
Materials	ABS resin	ABS resin,PVC resin
Accessories	Test Result	Test Result

DISCLAIMER

The right of technical modifications is reserved.

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