

Energy Consumption Visualization Components
Data Logger Light

Make the power "visualization" Promote eco-conscious operations



September 2010 New Release



Panasonic Electric Works

Make Data Storage and Remote Monitoring

Data Logger Light (DLL) enables data collection/logging and data transfer via e-mail/websites, allowing you to establish networks of equipment, facilities, and services and streamline systems without requiring special knowledge.



Easier for Everyone



Data Logger Light

Dedicated software and USB connection facilitate on-site setup of DLL.

Dedicated software for setup without the DLL main unit

Even if the DLL main unit is remotely located, it is possible to complete the setup of registered devices and conditions on a PC.





Simply tick the boxes in the "Station number setting screen" to choose measuring instruments connected via RS485.

Shows you the current setting status and data logging status ldeal for monitoring from an office remote from the site

*The screen images are only samples.

Easy-to-install and set up all-in-one unit

Featuring the USB port, SD/SDHC card slot, and universal AC power supply, DLL can be easily installed with a reduction in required wiring, enhancing the convenience and cost effectiveness.



Compatible with SD/SDHC cards

DLL is equipped with a slot for SD/SDHC cards, which are today's mainstream media. The slot features Class 10 high speed processing and is compatible with cards of up to 32 GB.

Equipped with both USB and LAN ports, to change settings

Setting data created on a PC can be transferred via the USB port. If the DLL is connected to a LAN, the data can also be transferred via the LAN port. Therefore, settings can be changed efficiently and smoothly either in standalone mode or as a component of a system.



Universal AC power supply and a built-in serial communication interface

Equipped with a built-in RS232C/RS485 interface The power supply is compatible with 100 to 240 V AC. Also equipped with a 24 V DC, 0.2 A external service power supply for connection with other equipment.

Data Logger Light



Data Logger Light

It is sufficient to connect only one of the two negative terminals shown above. Note 1: The factory default for the RUN/STOP mode selection switch is STOP mode.

Dimensions when mounted (1:2)

Specifications

Main	unit

Rated operating voltage	100 to 240V AC
Allowable operating voltage range	85 to 264V AC (85 to 110 % of rated operating voltage)
Rated frequency	50/60Hz
Allowable momentary power-off time	Max. 10 ms
Rated output voltage	24V DC
Output voltage range	21.6V to 26.4V DC
Rated output current	0.2A*
Ambient temperature	-10 to +55°C +14 to +131°F
Storage temperature	-25 to +70°C -13 to +158°F
Current consumption	Max. 230 mA (at 100V AC)
Weight	Approx. 200 g (without battery)

If a current load over the specified level is continuously applied, the unit may break down. When a short circuit is detected, the whole power supply of Data Logger Light will be shut down.

Performance specifications

		Descriptions	Instantaneous, difference, average, minimum, and maximum values
		Data format (Valid for the register system)	16-bit integers (signed/unsigned),
	Logged		32-bit integers (signed/unsigned)
	data		HEX (4-digit/8-digit), Real number
		Number of registrable files	16
		Number of registrable devices*1	300 points/1 file
Data accumulation		Saved to*2	Internal memory (SRAM): 1 MB
			SD/SDHC cards: 2 to 32 GB
	Data	File system	VFAT/FAT/FAT32
	saving	Saving format	CSV file type
		Number of storable files	100
	Trigger	Trigger type	 Constant cycle (user-selectable from 1 second to 24 hours Contact status (rising edge, falling edge, both edges, accumulation ON time, number of accumulation open/close operations, ON status, and OFF status) Specified time (every minute, every hour, every day, every week, every month, every year, and specified time) Register (=, >, <, *) Trigger combinations (AND, OR)
		Number of registrable	128
E-mail sending function		Transmission network	LAN
		E-mail content	Title: Within 16 one-byte or 8 two-byte characters
			Body: Within 256 one-byte or 128 two-byte characters
		Number of registrable	64 (with no files attached)
Network function		Communication protocol	TCP/IP, UDP/IP
		Application protocol	SMTP (Capable of POP/APOP authentication),
		Application protocol	FTP (client/server), SNTP, DHCP, DNS

*2: The internal memory can store data using the backup battery Please note that data stored in the internal memory may be lost when the battery has been depleted.

Communication specifications

Interface: Ethernet

Intenace. Ethernet			
Interface		IEEE802.3U, 10BASE-T/100BASE-TX	
Connector type		RJ45	
Transmission	Transmission speed	10Mbps/100Mbps	
specifications	Transmission method	Base band	
	Max. segment length	100 m	
Communication cable		UTP (category 5)	
		Auto-negotiation function,	
Functions		MDI/MDI-X auto-crossover function	

* Ethernet is a registered trademark of Xerox Corporation.

Interface: RS232C and RS485

Interface		RS232C (Not isolated	RS485 (Isolated	
		from the internal circuit)	from the internal circuit)	
Communication form		1:1 communication	1:N communication	
Number of connected units		1 unit	99 units*1 *2	
Communication method		Half-duplex	Half-duplex	
Synchronous system		Synchronous communication method		
Transmission distance		15 m	Max. 1200m*3	
Transmission speed		4,800/9,600/19,200/38,400/57,600/115,200 bps		
Transmission	Stop bit	1 bit/2 bit		
Transmission format	Parity	Odd number/Even number/Not available		
	Data length	7bit/8bit		
Protocol		MEWTOCOL	MEWTOCOL	

*1: When using a PC as a slave station, you are recommended to use SI-35 or SI-35USB of LINEEYE Co., Ltd. as an RS485 interface.
 *2: When using SI-35, SI-35USB, our Eco-POWER METER or our PLC (which can be connected up to 99 units), up to 99 units can be connected. In case using this system with the other devices, up to 31 units can be

connected.

 3: The transmission distance is limited by the transmission speed and the number of units connected.
 When the speed is 38,400 bps or lower, the maximum transmission distance is 1,200 m, and the number of the transmission distance is 1,200 m, and the number of transmission distance is 1,200 m, and the number of transmission distance is 1,200 m, and the number of transmission distance is 1,200 m, and the number of transmission distance is 1,200 m, and the number of transmission distance is 1,200 m, and the number of transmission distance is 1,200 m, and the number of transmission distance is 1,200 m, and transmis units is 99.

External memory specifications

SD card slot The use of a Panasonic SD card is recommended.		
Support media	SD card	
Supported format standards*1	Compliant with SD and SDHC standards	
Memory capacity	2 to 32 GB	
Speed class	Class2 to Class10	

To format SD cards, please download and use the formatting software available on the Panasonic website. [Panasonic website \rightarrow Customer support \rightarrow SD/SDHC card page \rightarrow Software download list] http://panasonic.jp/support/sd_w/download

The file system on a SD card that was formatted using standard PC software does not comply with the SD card standard.

Product types

Product name	Descriptions	Model number	
Data Logger Light (DLL) Number of registrable devices: 300 points max. (Total of 300 points max. for either 1 or 16 files), Internal memory: 1 MB, SD/SDHC card: Max. 32 GB		AKL1000	
Slim 30 type Mounting plate Plate for perpendicularly installing the Data Logger Light (set for 10)		AFP0811	
Flat type Mounting plate	Plate for installing Data Logger Light flush with the panel (set for 10)	AFP0804	
Battery for FPΣ For internal memory backup function and clock function		AFPG804	
Terminal screw driver Using when wiring Phoenix terminal		AFP0806	
Configurator DL	Data Logger Light setting software		
Configurator WD	IP addresses search tool (Ver.1.50 or more)	You can download from our website (free of charge)	
Data Logger Light User's manual (pdf)	Manual describing how to use Data Logger Light and setting procedures	Customer registration is required to download data.	

Panasonic Electric Works Co., Ltd.

Automation Controls Business Unit

■ Head Office: 1048, Kadoma, Kadoma-shi, Osaka 571-8686, Japan

■ Telephone: +81-6-6908-1050 ■ Facsimile: +81-6-6908-5781

panasonic-electric-works.net/ac