# Panasonic ideas for life

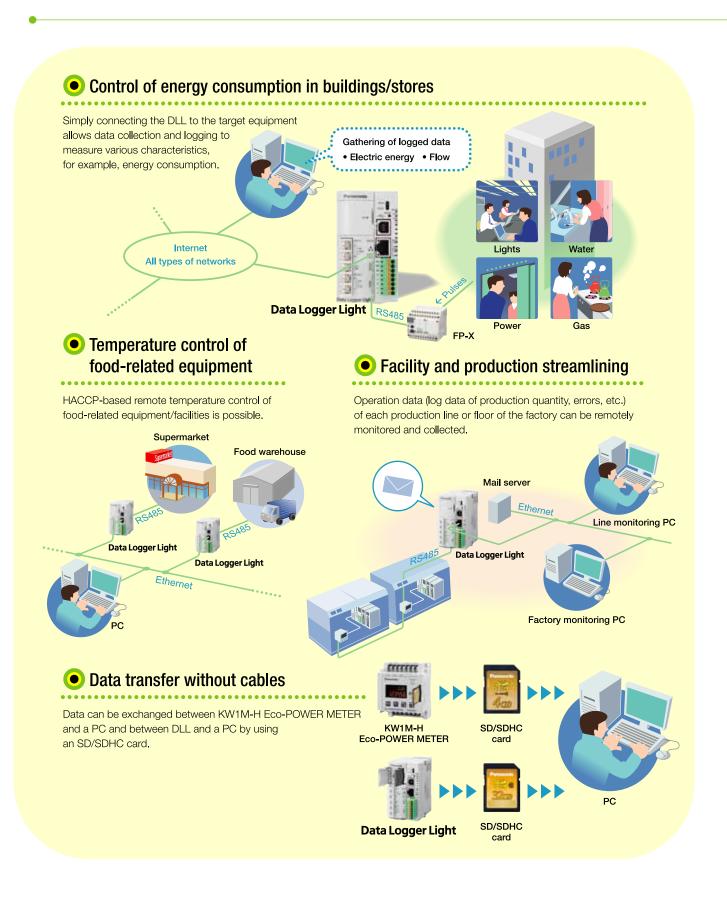
**Energy Consumption Visualization Components** 

# **Data Logger Light**



## 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.

# Top menu screen

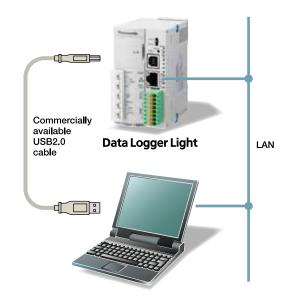
Click the "Easy Setup" icon, and you only need to follow the step-by-step guidance to complete the setting.



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

## Equipped with both USB and LAN ports, to change settings $% \left( \mathbf{r}\right) =\left( \mathbf{r}\right)$

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.



### Current value monitoring screen



Shows you the current setting status and data logging status Ideal 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.



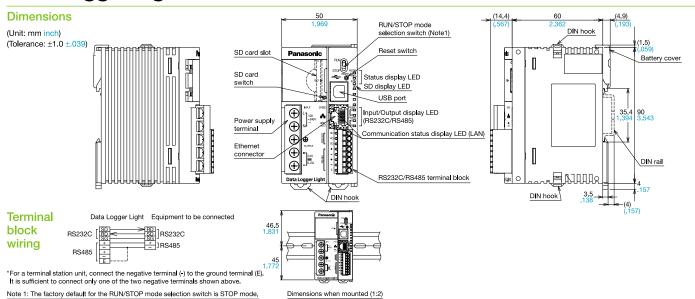
## Compatible with SD/SDHC cards

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.

## 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**



#### **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

PE	rionna	nce specifications	
		Descriptions	Instantaneous, difference, average, minimum, and maximum values
Data accumulation		Data format (Valid for the register system)	16-bit integers (signed/unsigned),
	Logged data		32-bit integers (signed/unsigned)
			HEX (4-digit/8-digit), Real number
		Number of registrable files	16
		Number of registrable devices*1	300 points/1 file
		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	<ul> <li>Constant cycle (user-selectable from 1 second to 24 hours)</li> <li>Contact status (rising edge, falling edge, both edges, accumulation ON time, number of accumulation open/close operations, ON status, and OFF status)</li> <li>Specified time (every minute, every hour, every day, every week, every month, every year, and specified time)</li> <li>Register (=, &gt;, &lt;, ≠)</li> <li>Trigger combinations (AND, OR)</li> </ul>
		Number of registrable	128
_	mail	Transmission network	LAN
E-mail sending function		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)
NI.		Communication protocol	TCP/IP, UDP/IP
Network function		Application protocol	SMTP (Capable of POP/APOP authentication),
			ETP (client/server) SNTP DHCP DNS

<sup>\*1:</sup> The maximum total number of points for registrable devices is always 300, for either 1 file or 16 files.

## Communication specifications

#### Interface: Ethernet

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

<sup>\*</sup> Ethernet is a registered trademark of Xerox Corporation.

#### Interface: RS232C and RS485

Interface		RS232C (Not isolated	RS485 (Isolated
Interface		from the internal circuit)	from the internal circuit)
Communication for	rm	1:1 communication	1:N communication
Number of connec	ted units	1 unit	99 units*1 *2
Communication method		Half-duplex	
Synchronous syste	em	Synchronous communication method	
Transmission dista	nce	15 m	Max. 1200m*3
Transmission spee	d	4,800/9,600/19,200/38,400/57,600/115,200 bps	
Transmission	Stop bit	1 bit/2 bit	
format	Parity	Odd number/Even number/Not available	
IOIIIai	Data length	7bit/8bit	
Protocol		MEWTOCOL	

#### **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	

<sup>\*1:</sup> To format SD cards, please download and use the formatting software available on the Panasonic website. [Panasonic website → Customer support → SD/SDHC card page → Software download list] http://panasonic.jp/support/sd\_w/download

#### **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	Ve de color de la color d	
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 dat	

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<sup>\*2:</sup> 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.

<sup>\*1:</sup> 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

<sup>\*3:</sup> 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 file system on a SD card that was formatted using standard PC software does not comply with the SD card standard.