Panasonic ideas for life

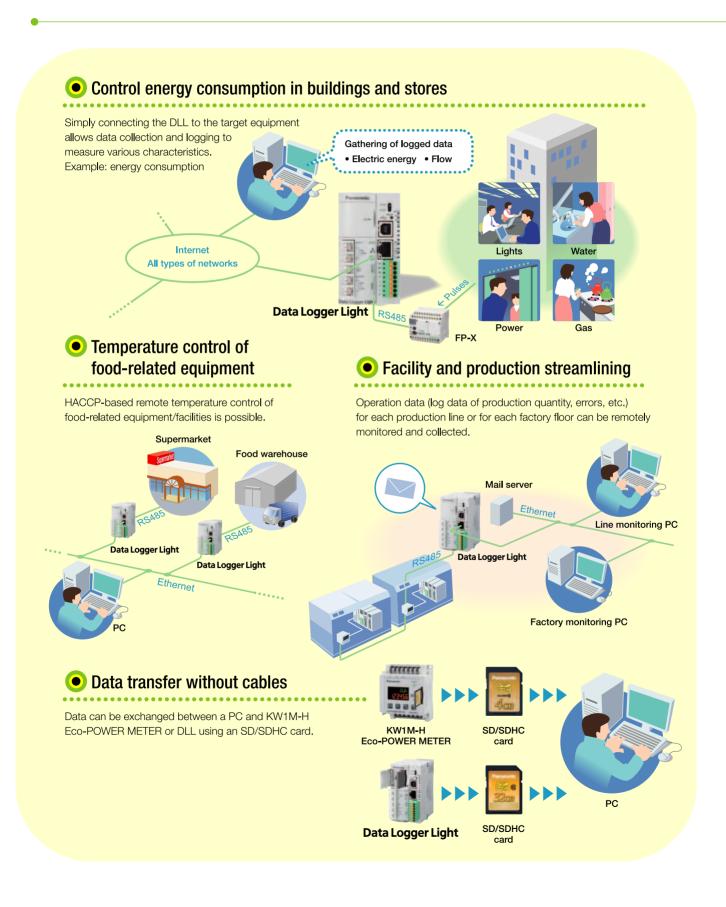
DATA LOGGER LIGHT AKL1000

Conforming to EMC Directive



Make Data Storage and Remote Monitoring

Data Logger Light (DLL) enabels data collection/logging and data transfer through e-mail and websites. This allows you to create equipment, facility and service networks to streamline systems without any special programming knowledge.



Easy & Eco-friendly for Everyone



Data Logger Light

LAN

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

Easy setup with Configurator DL Software

Registers and other settings of the DLL can be easily set up using Configurator DL software.

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



Simply check the boxes in the "Station number setting screen" connected via RS485.

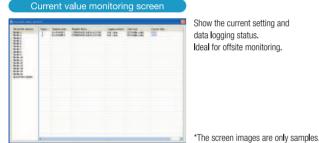
to choose measuring instruments



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



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

The USB port, SD/SDHC card slot and universal AC power supply offer easy installation and provide an easy to use system with less wiring and greater cost savings.



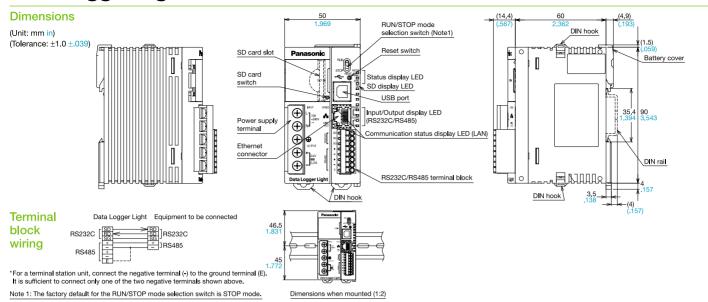
Compatible with SD/SDHC cards

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.

Functional specifications

Logged data Communication protocol Communication protocol		. anotional opcomoducito			
Logged data			Descriptions	Instantaneous, difference, average, minimum, and maximum values	
Logged data (Valid for the register system) HEX (4-digit/8-digit), Real number				16-bit integers (signed/unsigned),	
Number of registrable devices*1 16 300 points/1 file				32-bit integers (signed/unsigned)	
Number of registrable devices*1 300 points/1 file Internal memory (SRAM): 1 MB SD/SDHC cards: 2 to 32 GB				HEX (4-digit/8-digit), Real number	
Saved to '2			Number of registrable files	16	
Saving Pata Saving File system Saving File Saving format CSV file type 100			Number of registrable devices*1	300 points/1 file	
Trigger Trigger type Trigger combinations (AND, OR) Transmission network Transmission network Trigger combinations (AND, OR) Transmission network Tritle: Within 16 one-byte or 8 two-byte characters Body: Within 256 one-byte or 128 two-byte characters Trigger communication protocol TCP/IP, UDP/IP SMTP (Capable of POP/APOP authentication),	=		Saved to*2	Internal memory (SRAM): 1 MB	
Trigger Trigger type Trigger combinations (AND, OR) Transmission network Transmission network Trigger combinations (AND, OR) Transmission network Tritle: Within 16 one-byte or 8 two-byte characters Body: Within 256 one-byte or 128 two-byte characters Trigger communication protocol TCP/IP, UDP/IP SMTP (Capable of POP/APOP authentication),	atic			SD/SDHC cards: 2 to 32 GB	
Trigger Trigger type Trigger combinations (AND, OR) Transmission network Transmission network Transmission network Tritle: Within 16 one-byte or 8 two-byte characters Body: Within 256 one-byte or 128 two-byte characters Trigger type Transmission network Tritle: Within 16 one-byte or 128 two-byte characters Trigger combinations (AND, OR) Trigger combinations (AND, OR) Transmission network Tritle: Within 16 one-byte or 128 two-byte characters Trigger combinations (AND, OR) Trigger combinations (AND, OR) Trigger combinations (AND, OR) Trigger combinations (AND, OR) Transmission network Trigger combinations (AND, OR) Trigger combinations (AND, OR) Trigger combinations (AND, OR) Transmission network Trigger combinations (AND, OR) Transmission network Trigger combinations (AND, OR) Transmission network Transmission net	Data accumu		File system	VFAT/FAT/FAT32	
Trigger Trigger type Trigger combinations (AND, OR) Transmission network Transmission network Trigger combinations (AND, OR) Transmission network Tritle: Within 16 one-byte or 8 two-byte characters Body: Within 256 one-byte or 128 two-byte characters Trigger communication protocol TCP/IP, UDP/IP SMTP (Capable of POP/APOP authentication),			Saving format	CSV file type	
Trigger Trigger type Trigger combinations (AND, OR) Transmission network Transmission network Trigger combinations (AND, OR) Transmission network Tritle: Within 16 one-byte or 8 two-byte characters Body: Within 256 one-byte or 128 two-byte characters Trigger communication protocol TCP/IP, UDP/IP SMTP (Capable of POP/APOP authentication),			Number of storable files	100	
E-mail sending function E-mail content E-mail content E-mail content E-mail content E-mail content Number of registrable Communication protocol Network Function Application protocol Application protocol TCP/IP, UDP/IP SMTP (Capable of POP/APOP authentication),		Trigger	Trigger type	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 (=, > <, *)	
E-mail sending function E-mail content Title: Within 16 one-byte or 8 two-byte characters			Number of registrable	128	
E-mail content Body: Within 16 one-byte or 18 two-byte characters Body: Within 256 one-byte or 128 two-byte characters Number of registrable 64 (with no files attached) Communication protocol TCP/IP, UDP/IP SMTP (Capable of POP/APOP authentication),	_	:	Transmission network	LAN	
function Number of registrable Network Function Number of registrable Communication protocol Network Function Application protocol Application protocol Application protocol	_		E-mail content	Title: Within 16 one-byte or 8 two-byte characters	
Number of registrable 64 (with no files attached) Communication protocol Network function Application protocol Application protocol Application protocol				Body: Within 256 one-byte or 128 two-byte characters	
Network function Application protocol Application protocol	Tur	iction	Number of registrable	64 (with no files attached)	
SMTP (Capable of POP/APOP authentication),			Communication protocol	TCP/IP, UDP/IP	
tunction Application protocol FTP (client/server) SNTP DHCP DNS				SMTP (Capable of POP/APOP authentication),	
THE CONTROL OF THE CO	function		Application protocol	FTP (client/server), SNTP, DHCP, DNS	

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 ca	ıble	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	
Interrace		from the internal circuit)	from the internal circuit)	
Communication f	orm	1:1 communication	1:N communication	
Number of conne	cted units	1 unit	99 units*1 *2	
Communication method Synchronous system		Half-duplex	Half-duplex	
		Synchronous communicati	Synchronous communication method	
Transmission dist	ance	15 m	Max. 1200m*3	
Transmission speed		4,800/9,600/19,200/38,400	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	Odd number/Even number/Not available	
	Data length	7bit/8bit	7bit/8bit	
Protocol		MEWTOCOL	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	

^{*1:} To format SD cards, please download and use the formatting software available on the Panasonic website. http://panasonic.jp/support/global/cs/sd/download/index.html
The file system on a SD card that was formatted using standard PC software does not comply with the SD card standard.

Product No. List

1 Todaot Hot Elot			
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	Variable desired and frame and the best of the season of t	
Configurator WD P addresses search tool (Ver.1.50 or more)		You can download from our website (free of charge). Customer registration is required to download data.	
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	

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

^{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