

Panasonic
ideas for life

Network Station for Remote Monitoring

Web Datalogger Unit



Ideal for energy saving system in buildings and offices,
and streamlining of production lines

**Establish data logging and remote
monitoring systems with simple setup**

Web Datalogger Unit
ARCT1B309E '08.7

New

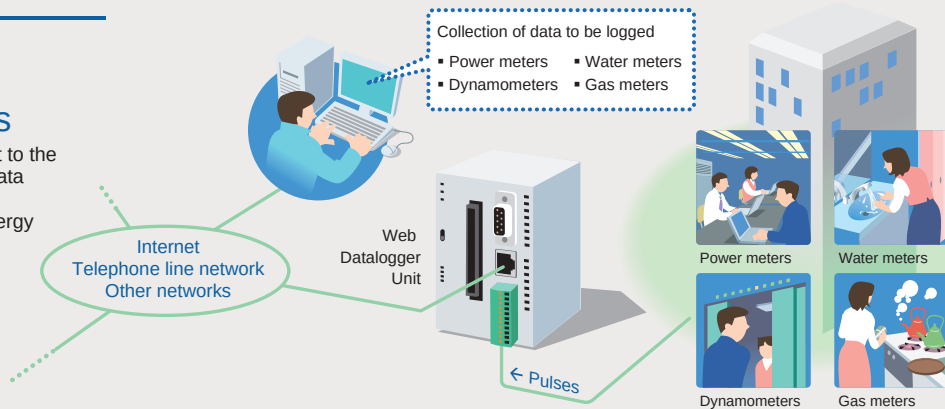
<http://panasonic-electric-works.net>

Panasonic Electric Works Co., Ltd

Equipment, facilities, and service networks for data collection/logging, data transfer via e-mail/website, and system streamlining can be established without special knowledge.

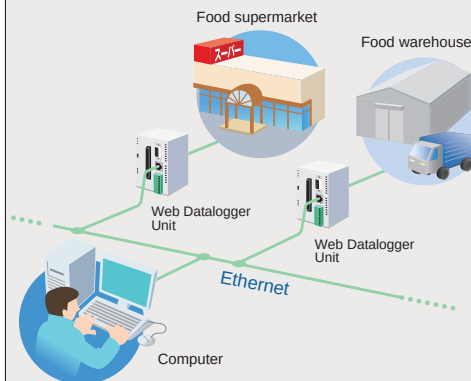
Energy saving system in buildings/stores

Simply connecting the unit to the target equipment allows data collection and logging to measure, for example, energy consumption in buildings/convenience stores.



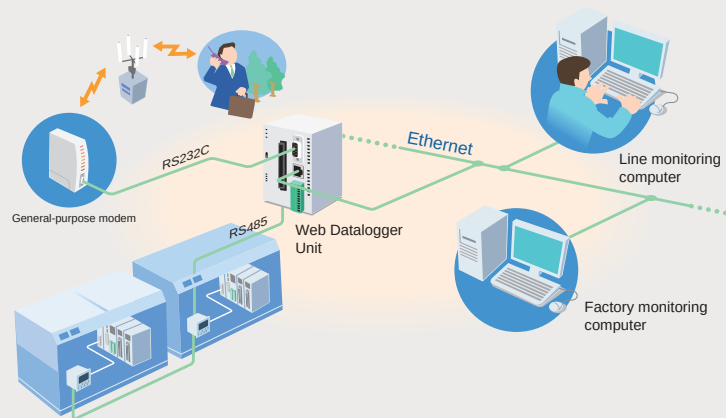
Temperature control of food-related equipment

HACCP-based remote temperature control of food-related equipment/facilities is possible.



Facility and production streamlining

Operation data (log data of production quantity, errors, etc.) of each production line or floor of the factory can be remotely monitored and collected.



The setup screen can be opened with Internet Explorer (browser) without using special software and can also be used as a simple monitor.

1

Easy to set up and start

Setting screen



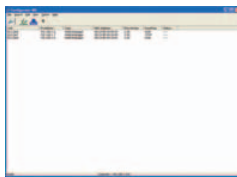
Operation conditions can be easily set by displaying the setting screen of the unit with Internet Explorer without using special tool software. Simple monitoring is also available.

Monitoring screen



Operation status can be monitored on Internet Explorer by selecting the simple monitoring screen from the setting menu.

IP address search screen



No problems if the user forgets the IP address of a unit connected to the LAN. The dedicated IP address search tool can easily find the IP address.

System Configuration



Commercially available CF card (1 GB max.)

Modem connection port (compatible with PPP connection)

LAN connection port (10BASE-T)

Digital I/O terminal (four DC inputs and one relay output)

Communication cassette (RS232C, RS485) (separately available)

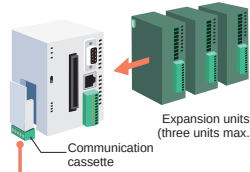
2

A variety of I/O devices for data collection and alarm output

Our FP0 programmable controllers can be easily connected. Since this unit is also compatible with analog signals, temperature data can be directly retrieved. In combination with the RS485 type communication cassette, up to 99 of our PLC units can be connected.



99 units max.



Expansion units (three units max.)

Web Datalogger Unit

Simple logging without the need of software tools or special knowledge

Collected and logged data is saved on a CF card in CSV format.

(A CF card is not included in the package and should be prepared by users.)



- A CF card can hold up to 60 files, each of which can contain up to 60,000 records x 250 points.

* Only in special cases, data of up to 4,000 points can be collected.
For details, please refer to the manual.

- A CF card with a maximum capacity of 1 GB can be used.
- The data collection (record logging) cycle is freely selectable from 1 second to 24 hours.

Example 1

When collecting temperature data of a maximum of 250 points once every ten minutes for control on a daily basis, each file is made up of 144 records (24 hr x 60 min / 10 min), and 60 files i.e. data of 60 days (2 months) can be stored on a CF card.

Example 2

When collecting power data of a maximum of 250 points once every an hour for control on a monthly (30 days) basis, each file is made up of 720 records (24 hr x 30 days), and 60 files i.e. data of 60 months (5 years) can be stored on a CF card.

250 points max. →

60,000 records max. ↓

	A	B	C	D	E
1	Date	Time	No.1	No.2	No.3
2			COM1	COM1	COM1
3			DT0	DT1	DT2
4			Station 1	Station 2	Station 3
5			FLT	FLT	FLT
6			°C	°C	°C
7	20061201	08.00.00	21.2	19.1	21.0
8	20061201	08.10.00	22.1	19.9	21.9
9	20061201	08.20.00	22.8	20.5	22.6
10	20061201	08.30.00	23.3	21.0	23.1
11	20061201	08.40.00	23.9	21.5	23.7

Three data collection methods:

Serial communications, direct bus connection, and pulse input

- The RS485 serial communications allow data collection from up to 99 units.

No programming for communications is required. Simply designate data (DT) to be collected on the Web Datalogger Unit setting screen if the connected equipment is a KW4M Eco-Power Meter, KT/KT4H Temperature Controller compatible, or FP series programmable controller with MEWTOCOL (Matsushita open protocol).

Note 1: An optional communication cassette is required for serial communications.

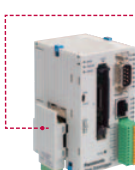
Note 2: The maximum connectable number of Multi-Circuit Checker and KT/KT4H Temperature Controller units is 31.

Note 3: The communication interface for WR10 Wireless Sensor is RS232C.
Up to 99 units can be connected through RS485 by using our C-NET Adapters.

Eco-Power Meter

KT4H Temperature Controller

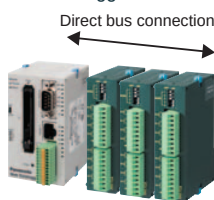
FP series programmable controller



RS485 1,200 m 99 units max. (KT/KT4H Temperature Controller: 31 units max.)

- FP0 expansion (thermocouple, A/D converter) units can be directly connected to the bus by the built-in connectors.

Up to three units can be connected to the right side of the Web Datalogger Unit.



3 units max.

- The four parallel input points allow pulse meters, such as power, gas, and water meters, to be connected.

- Power meters
- Gas meters
- Water meters



Pulse train

Pulse train

Web Datalogger Unit Communication Cassettes (Option)

- For communications with measuring devices

Attach one of the cassettes.



RS232C
x1ch



RS232C
x2ch



RS485 (isolated)
x1ch



RS232C
x1ch
RS485 (isolated)
x1ch

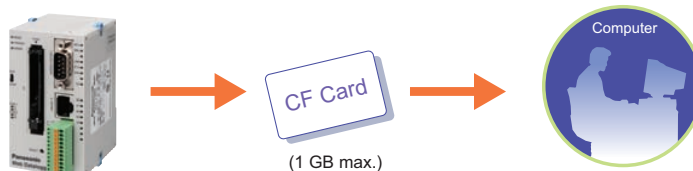
Loading of log data (CSV files)

The data stored by the Web Datalogger Unit (CSV files) can be loaded by three different methods using a computer.

CF Card

Convenient for loading CSV files off-line

Loading the log data from the CF card is easy particularly if the equipment or facilities are not in a LAN environment or don't need to be networked. A CF card with a maximum capacity of 1 GB can be used in Web Datalogger Unit. (A CF card should be prepared by users.)



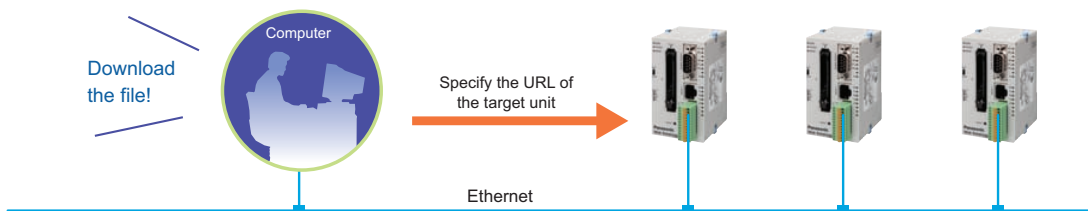
FTP Server

For systems in a LAN environment

Web Datalogger Unit has an FTP server function.

A computer connected to Web Datalogger Units via the Ethernet LAN can download the CSV files stored on the CF card by specifying the URL of the target Web Datalogger Unit using FTP client software. (It is also possible to erase files on the CF card from the computer.)

* FTP: File Transfer Protocol



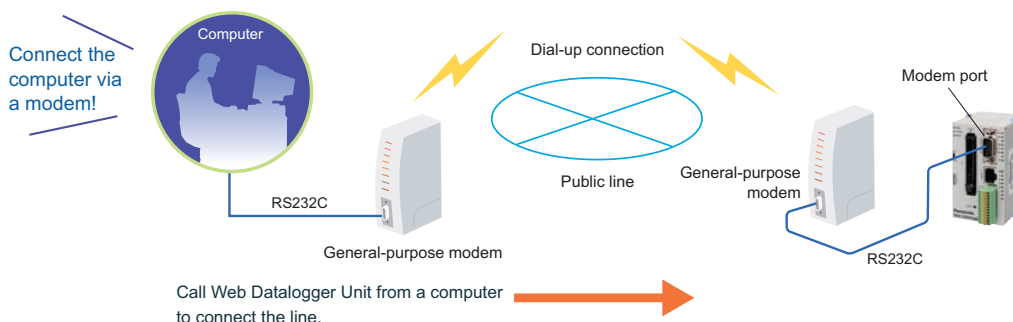
Remarks: The FTP client refers to the side that downloads the data from the server. In the above example, the computer is the FTP client. The FTP server refers to the side that provides the data. In the above example, the Web Datalogger Units are the FTP servers.

PPP Connection

For downloading the data by a computer in a remote location

Web Datalogger Unit can be used as a PPP server by connecting it to the public line through the general-purpose modem. Similarly, if a computer is connected to the public line, the Web Datalogger Unit settings can be changed and the data can be monitored on the computer.

Remark: PPP (Point-to-Point Protocol) is a protocol for 1-to-1 TCP/IP connections of two devices connected by a serial line.

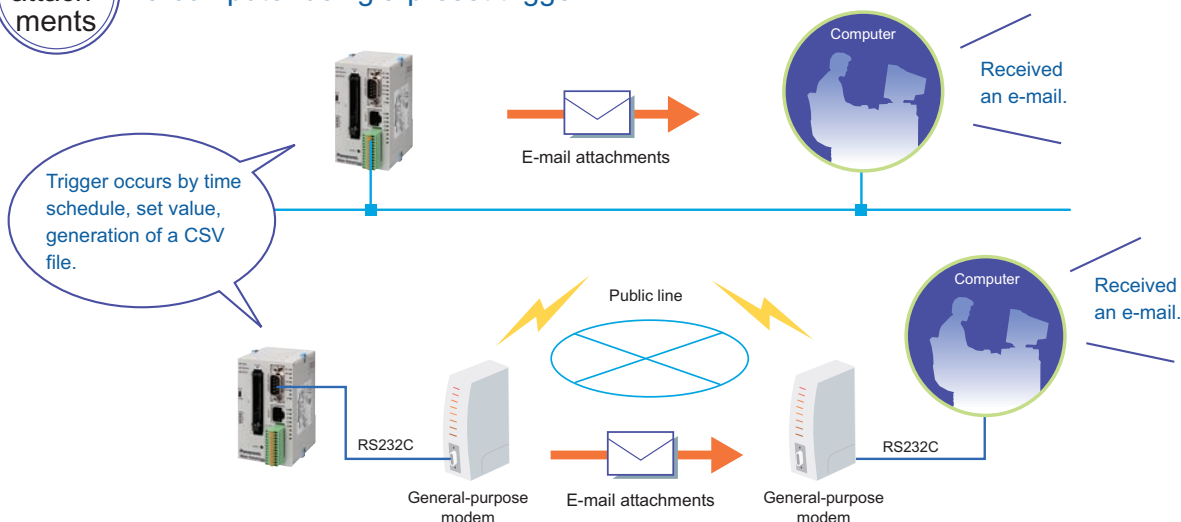


Transfer of log data (CSV files)

The log data (CSV files) can be loaded onto a computer with the timing set for the Web Datalogger Unit.

E-mail attachments

Web Datalogger Unit attaches the data to an e-mail and sends it to a computer using a preset trigger.



Downloading and monitoring of data using a browser

The following files can be downloaded from Web Datalogger Unit and monitored.

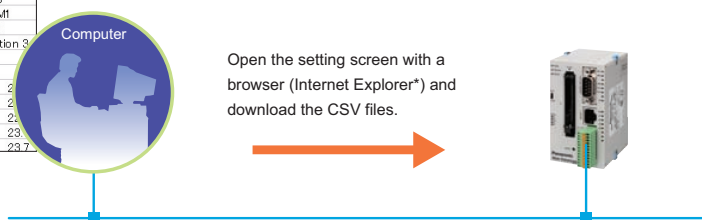
CSV files

CSV files can be downloaded upon request from the Web Datalogger Unit setting screen.

CSV files

	A	B	C	D	E
1	Date	Time	No.1	No.2	No.3
2			COM1	COM1	COM1
3			DT0	DT1	DT2
4			Station 1	Station 2	Station 3
5			FLT	FLT	FLT
6			°C	°C	°C
7	20061201	08:00:00	21.2	19.1	21.2
8	20061201	08:10:00	22.1	19.9	21.2
9	20061201	08:20:00	22.8	20.5	21.2
10	20061201	08:30:00	23.3	21.0	23.3
11	20061201	08:40:00	23.9	21.5	23.7

Data can be monitored with a browser (Internet Explorer*) and saved on a computer.



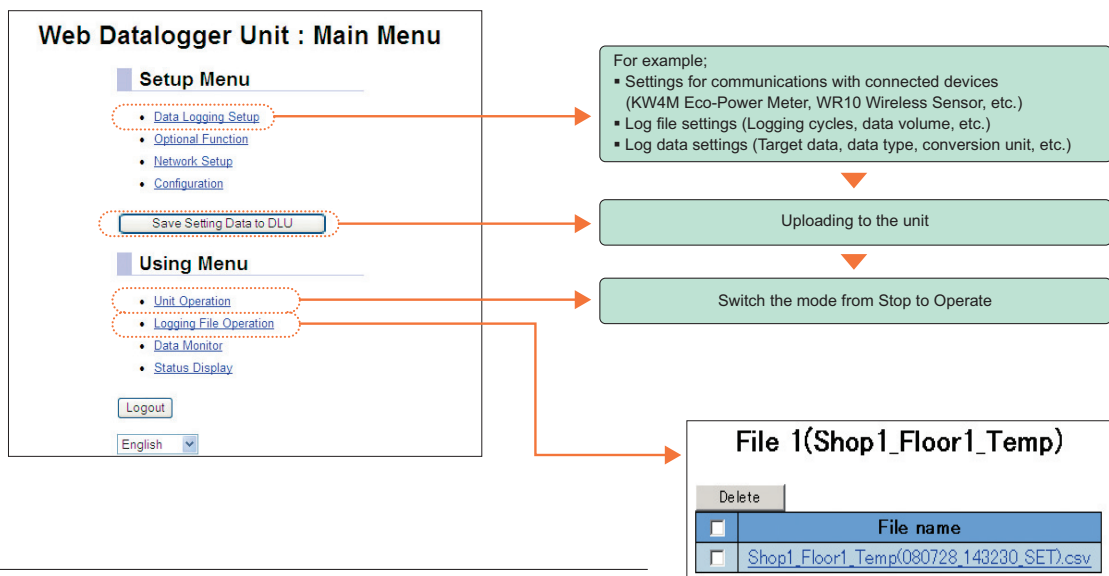
Example of the Web Datalogger Unit operation

No special software is required for setting the conditions of the Web Datalogger Unit or monitoring the data. The setting and monitoring can be easily carried out from a computer by opening the setting screen (HTML file) stored on the F-ROM memory in the unit with Internet Explorer.

1 Call up the setting screen in the Web Datalogger Unit.



2 Set the unit environment, log file conditions, triggers (for data logging), target data, etc. and upload the settings to the Web Datalogger Unit. Then switch the mode to Operate.



3 Download the log files (CSV files) from the Web Datalogger Unit and save them on the computer.

	A	B	C	D	E
1	Date	Time	No.1	No.2	No.3
2			COM1	COM1	COM1
3			DT0	DT1	DT2
4			Station 1	Station 2	Station 3
5			FLT	FLT	FLT
6			°C	°C	°C
7	20061201	08:00:00	21.2	19.1	21.0
8	20061201	08:10:00	22.1	19.9	21.9
9	20061201	08:20:00	22.8	20.5	22.6
10	20061201	08:30:00	23.3	21.0	23.1
11	20061201	08:40:00	23.9	21.5	23.7

Left-click the file name to open the file with the browser.
Right-click it to save the file.

* Internet Explorer is Internet browsing software of Microsoft Corporation.

Web Datalogger Unit

Product name	Model No.	Specifications
Main unit	AFL1200	Logging of data of up to 99 devices
Communication cassette	AFPG801	RS232C × 1ch
	AFPG802	RS232C × 2ch
	AFPG803	RS485 × 1ch
	AFPG806	(RS232C × 1ch) + (RS485 × 1ch)
IP search tool	-	Software for searching IP addresses of Web Datalogger Units connected to the LAN. Can be downloaded free of charge from: http://www.mew.co.jp/ac/e

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