EC-7691

2025-02

Rev. 6

WEB DATA LOGGER DL8 Series

Web-Enabled Remote Terminal Unit for Monitoring, Event Reporting and Data Logging



MG CO., LTD. www.mgco.jp Make Greener automation

GENERAL INTRODUCTIONS

Remote Monitoring System With High Cost Performance Accessible from Your Smartphone Anywhere through Internet



DL8 DEMO SITE

Browse trend and data monitor windows of the DL8 on our web site.

URL www.mgco.jp/english/products/weblogger/dl8_7.htm

Pre-installed user-friendly browser views for smartphones

'Data,' 'Trend' and 'Event Log' views are ready for monitoring purpose. Each one is basic but useful, designed for ease of browsing on smartphones and tablets. No additional application program is needed, just have your mobile terminal with internet browser.

Trend

10:40:03

D

PILOT PLA

Browse, Report and Log

Five types of DL8 are available: Type A for '**Browsing**' function with an internet browser; Type B added with '**Reporting**' function by emails; Type C added with '**Logging**' function with an SD card memory, Type D added with '**I/O Mapping**' over Modbus/TCP network, and Type E added with '**Advanced Communication**' function supporting SLMP client and secure communications.

Flexible I/O signal types and scalable points

The DL8 is composed of an RTU module plus dedicated I/O modules for **analog I/O**, **status (discrete) I/O** and **pulse I/O** which can be used in free combinations to meet exact users' needs of I/O types and number of points.

The minimum configuration consists of two analog inputs or four discrete inputs, while the maximum consists of 32 analog inputs 32 analog outputs, plus 64 discrete inputs, 64 discrete outputs and 32 pulse count inputs.

Enjoy modern communication infrastructure

Various network protocols are usable: TCP/IP, SLMP client, SMTP client, SNTP client, HTTP/HTTPS server, FTP/FTPS client and server, Modbus/TCP master and slave. The latest communication infrastructure such as optical, ADSL, CATV broadbands, high-speed mobile communications and WLAN networks.

• Screen images for illustration purposes only. The actual web browser views are subject to change without notice.

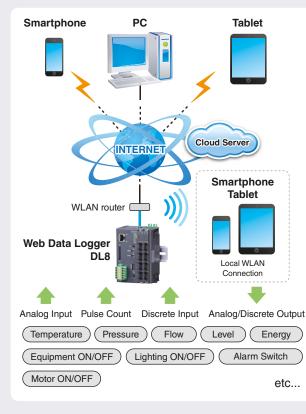
[•] Smartphones and/or telecommunication services are not our products.

^{• &}quot;Cloud server" mentioned in this document includes both paid and free services

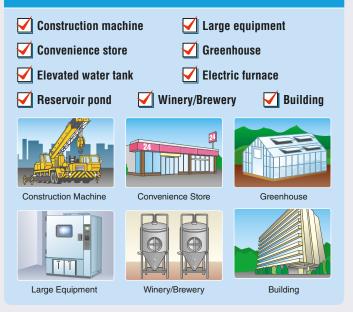
Web-Enabled Remote Terminal Unit for Monitoring, Event Reporting and Data Logging

Web Data Logger DL8 Series





The DL8 may be used in monitoring applications which you thought were unable to meet your cost requirements.



DL8 COMPONENTS & FUNCTIONS

Selectable Features at Minimum Cost



	DL8-0, -D and -E						
RTU MODULE	Туре		Fe	atured Functions	(See P.6)		Model
	A	Browse			—		DL8-A
	В	Browse	Report		—		DL8-B
	С	Browse	Report	Log			DL8-C
	D	Browse	Report	Log	I/O Marshalling Advanced View		DL8-D
	E	Browse	Report	Log	I/O Marshalling Advanced View	Advanced Communication	DL8-E

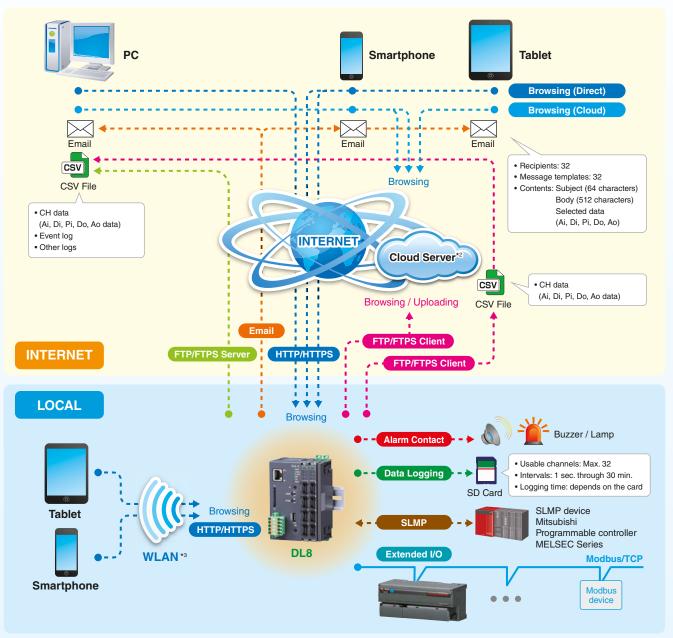
■ I/O MODULE Max. Capacity Signal Type Model Function DC current input (2 points, isolated) **R8-SS2** DC current input (4 points, non-isolated) R8-SS4N DC current input (4 points, non-isolated, sensor exc.) R8-SS4NJ DC current input (8 points, isolated, tension-clamp terminal block) R8-SST8 R8-SV2 DC voltage input (2 points, isolated) 32 points Analog input DC voltage input (4 points, non-isolated) R8-SV4N **B8-TS2** Thermocouple input (2 points, isolated) RTD input (4 points, non-isolated) **R8-RS4N** DC voltage/current input (4 points, non-isolated, sensor exc., tension-clamp terminal block) **R8-FST4N** DC voltage/current input (16 points, non-isolated, sensor exc.) **B8-FS16N** Contact input (4 points, NPN) R8-DA4A Contact input (16 points, NPN) R8-DAM16A Contact input (8 points, NPN, tension-clamp terminal block) R8-DAT8A2 Discrete input 64 points Contact input (16 points, NPN, tension-clamp terminal block) **R8-DAT16A2** Contact input (8 points, PNP, tension-clamp terminal block) R8-DAT8B2 Totalized pulse input (4 points, NPN/PNP/voltage pulse) **B8-PA4** Pulse input 32 points High-speed totalized pulse input (4 points, NPN) R8-PA4F AC power input 32 points AC current input (4 points, non-isolated, clamp-on current sensor) R8-CT4E DC voltage output (4 points, non-isolated) R8-YV4N DC current output (4 points, non-isolated, tension-clamp terminal block) R8-YST4N 32 points Analog output DC current output (2 points, non-isolated, sensor exc.) R8-YS2NJ DC current output (2 points, isolated) **R8-YS2** Transistor output (4 points, NPN, shortcircuit protection) **B8-DC44** Transistor output (4 points, NPN, voltage contact, shortcircuit protection) **R8-DC4A2** Photo MOSFET relay output (4 points) R8-DC4C Relay output (4 points, tension-clamp terminal block) R8-DCT4D Transistor output (16 points, NPN, shortcircuit protection) R8-DCM16A Transistor output (16 points, NPN, shortcircuit protection, full interlock) R8-DCM16ALZ Discrete output 64 points Transistor output (16 points, NPN, shortcircuit protection, full and individual interlock) R8-DCM16ALK Transistor output (16 points, NPN, shortcircuit protection, full and partial interlock) R8-DCM16ALH Transistor output (32 points, PNP, shortcircuit protection) **R8-DCM32B2** Transistor output (8 points, NPN, shortcircuit protection, tension-clamp terminal block) R8-DCT8A2 Transistor output (16 points, NPN, shortcircuit protection, tension-clamp terminal block) **R8-DCT16A2** Transistor output (8 points, PNP shortcircuit protection, tension-clamp terminal block) R8-DCT8B2 Pulse output 32 points Pulse output (4 points, open collector) R8-PC4A Function Mode

POWER SUPPLY

R8-PS1 *1. Including extended remote I/Os

Web Data Logger DI 🤇

FUNCTIONS



*2. Cloud server services are not our products. *3. A WLAN access point is required to use wireless LAN network.

ETHERNET/RS-485 ADAPTOR FOR MODBUS

Bidirectional protocol converter for Modbus/TCP (Ethernet) and Modbus RTU (RS-485)



5

DL8 FUNCTIONS

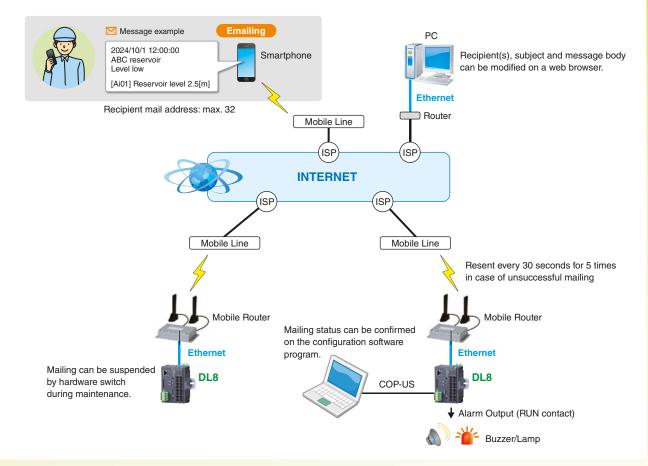
FUNCTIONS

		Type Function		motion	Descriptions						
А	В	С	D	Е		inction					
						Browsing (Direct)	I/O signal status in the DL8 web server can be directly monitored with an internet browser.				
Y	Y	Y	Y	Y	Browse	Browsing (Cloud)	The DL8, operating as FTP client, uploads web use files to a cloud server. Multiple users can access it at once without extra load at the DL8.				
						Extended I/O	I/Os located within 500-meter distance can be collected and accessed via single DL8 module.				
						Email	Events can be reported by emails. Regular reporting and test mailing are also possible.				
N	Y	Y	Y	Y	Report	Alarm Contact	Event can trigger an alarm contact at a discrete output module.				
						FTP Client	Specific data can be converted into user defined CSV files and uploaded to an FTP server.				
					_	Data Logging	Data is sampled and stored in CSV format in an SD card.				
N	N	Y	Y	Y	Log	FTP Server	The host supervising system (client PC) can upload CSV data files from the DL8 operating as FTP server.				
N	N	N	Y	Y	I/O Marshalling	I/O Mapping	Input at one I/O module can be output at another connected over Modbus/TCP network, by simply specifying combination of Di/Do and Ai/Ao.				
					Advanced View	User Defined View	User's own browser views can be added using JavaScript and the DL8 original HTML tags.				
N	N	N	N	Y	Advanced	Encrypted Communication	Communications are encrypted by using HTTPS and FTPS protocols. Data can be handled securely.				
					Communication	SLMP Communication	The DL8 collects data from a PLC using SLMP client function.				
Y	= Fun	ction	avail	able.	N = Not available.						

Email

Type B, C, D, E

Up to 32 mail recipients can be registered in the address list. Each of the regular and event reports can be sent to different recipients. The DL8 retries every 30 seconds up to 5 times if a mail is undelivered. It outputs an error contact to notify the failure if it is still undelivered after 5 retries.



Web Data Logger

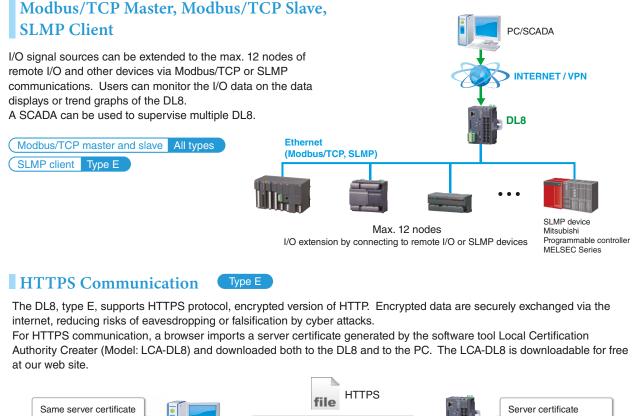
FTP Server

FTP Client

FTP/FTPS

Logging Data

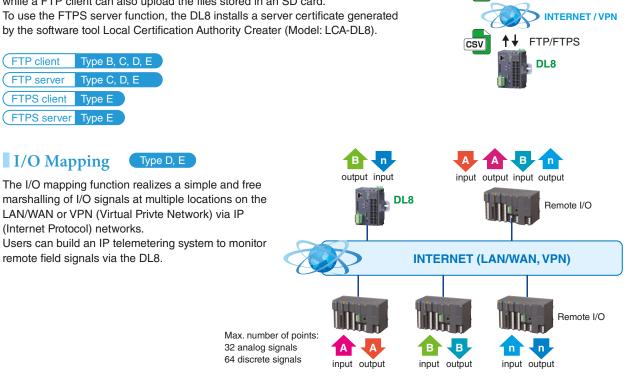
CSV





FTP Client and Server, **FTPS Client and Server**

CSV files recorded and stored in the DL8 can be transferred to a FTP server, while a FTP client can also upload the files stored in an SD card.



PRE-INSTALLED VIEWS

Smartphone / Tablet / Laptop PC Web Browsed Views Designed for Mobiles



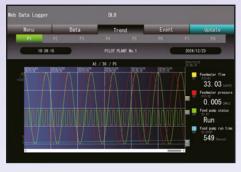
Display Examples with iPhone or Android[™]

Trend view optimized for the aspect ratio of a smartphone screen

Display Examples with iPad

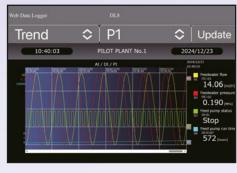
Event log view designed for ease of reading on the vertical screen of a tablet

PC SCREEN



• iPhone and iPad are registered trademarks of Apple Inc.

SMARTPHONE SCREEN



Large sized buttons are placed for ease of operating on the small sized screen of a smartphone.

Android and Android logo are (registered) trademarks of Google LLC.

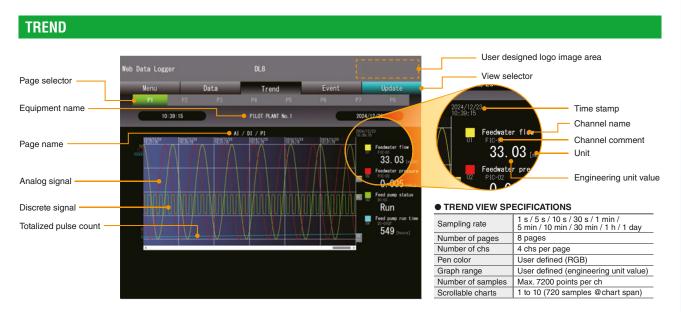
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8

Web Data Logger

Short trend and digital data displays are available to monitor analog, discrete and totalized pulse signals. Event log is also available to review alarm events. All the views can be quickly ready for use by simple setting.



EVENT LOG

eb Data Logger		DL8		
Menu	Data	Trend	Event	Jpdate
10:43	46	PILOT PLANT No. 1	2024/12/23	
Time	Ch Name	Comment	Event/Status	Signal
024/12/23 10:43:45	AIO1 Feedwater flow	FIC-01	H	
024/12/23 10:43:32	PIO1 Feedwater flow Q	FQ-01	9999 counts	
024/12/23 10:42:30	A102 Feedwater pressure	P1C-02	LO	
024/12/23 10:42:18	PIO4 Energy consumption	W0-04	Demand Alarm	
024/12/23 10:42:10	AIO3 Tank water level	L10-03	Tank empty	
024/12/23 10:42:05	AI01 Feedwater flow	F10-01	HH	
2024/12/23 10:41:52	PI01 Feedwater flow Q	F0-01	9999 counts	
2024/12/23 10:40:50	A102 Feedwater pressure	P10-02		
024/12/23 10:40:47	PI04 Energy consumption	NO-04	Demand Alarm	
2024/12/23 10:40:30	AIO3 Tank water level	L10-03	Tank empty	
2024/12/23 10:40:25	AI01 Feedwater flow	F10-01	HH	
024/12/23 10:40:12	PI01 Feedwater flow Q	F0-01	9999 counts	
024/12/23 10:39:16	PI04 Energy consumption	NO-04	Demand Alarm	1.00
024/12/23 10:39:10	AI02 Feedwater pressure	P10-02		- 1
024/12/23 10:38:50	AIO3 Tank water level	L10-03	Tank empty	1.00
024/12/23 10:38:45	AI01 Feedwater flow	F10-01	HH	
024/12/23 10:38:32	PI01 Feedwater flow Q	F0-01	9999 counts	
024/12/23 10:37:45	P104 Energy consumption	NQ-04	Demand Alarm	
2024/12/23 10:37:30	AI02 Feedwater pressure	P1C-02	LO	
2024/12/23 10:37:10	A103 Tank water level	L10-03	Tank empty	
2024/12/23 10:37:05	AI01 Feedwater flow	F10-01	HH	
2024/12/23 10:36:52	PI01 Feedwater flow Q	F0-01	9999 counts	
2024/12/23 10:35:14	PIO4 Energy consumption	NO-04	Demand Alarm	
2024/12/23 10:35:50	AIQ2 Feedwater pressure	PIC-02	LO	
			Í	
Time stamp	Channel nam	ie	Event / Status	
Ch	annel No.	Channel comme	ent Zon	e/status c

• EVENT LOG SPECIFICATIONS

Analog signal	Alarm triggered when measured value passes across the setpoint.
Discrete signal	Alarm triggered when status changes.
Totalized count	Alarm triggered when pulse count exceeds the setpoint. (Counter can be reset.)
Pulse signal	Alarm triggered when measured value passes across the setpoint.

Emails can be sent when an event occurs.

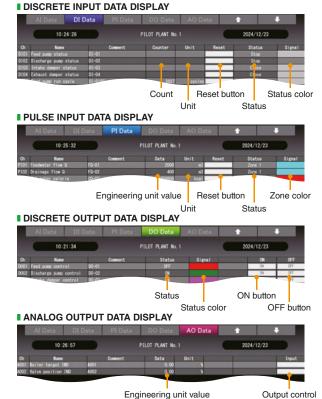
Specific recipients and texts can be defined for each event condition.

DATA

ANALOG INPUT DATA DISPLAY

Web Data Logge			DL8				
Menu	Da	ta	Trend	6	vent	Upda	ate
AI Data	Di Data	PI Data	DO Data	AO Data			2
10:2	3:49		PILOT PLANT No. 1		C	2024/12/23	D
Ch Name AIOI Feedwater flow	F10-01	Comment	Dete 48.06	Unit m3/H	¥ 96.12	Status HH	Signal
AI02 Foodwater pressu	re PIC-02	-	0.139	IP.	69.29	Normal leve_detected	
* Tack water tempe	rature TI-04		18.8	See. C	0.21		
annel No.	Channel	commen	t	Unit		Status	

Status Channel name Engineering unit value % value Zone color



Engineering unit value

USER DEFINED VIEWS

Customized Web Browser Views DL8-D, -E OPTION



USING THE DL8 ORIGINAL TAGS

The DL8 original tags in an HTML file are automatically converted into corresponding text/data string by the DL8. Users who do not have technical knowledge of programming scripts can easily create an original data view.

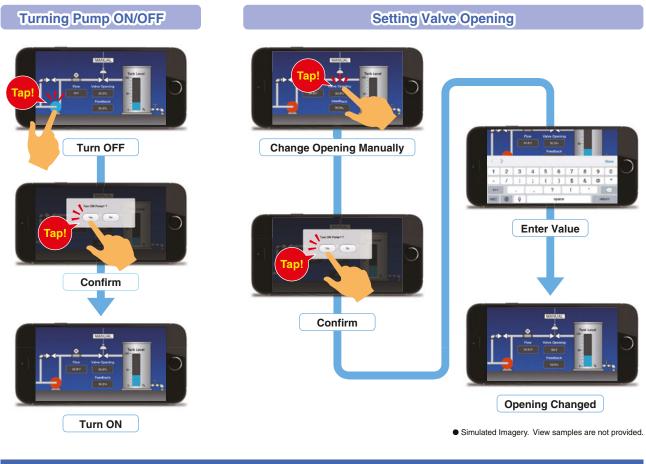


The DL8 User Defined View must be created and used under the user's sole responsibility, including its display components and functions.

ORIGINAL TAG	CONTENTS	CONVERTED TEXT/DATA STRING (example)			
[NAME1] Name 1		Web Data Logger			
[NAME2]	Name 2	Web Data Logger			
[NAME3]	Name 3	Web Data Logger			
[TIME1]	Present Time	2024/10/1 11:00:00			
[TIME2]	Not Used				
[AI1_NAME]	Ai 1	CH name			
[AI1_COMM]	Ai 1	CH comment			
[AI1_DATA] Ai 1		Engineering unit data			
[AI1_DATA_P] Ai 1		% data			
[AI1_UNIT] Ai 1		Engineering unit			
[AI1_AREA] Ai 1		Zone name			
[DI1_NAME]	Di 1	CH name			
[DO1_DATA] Do 1		Status (display comment)			
[AO1_NAME] Ao 1		CH name			
[AO1_COMM]	Ao 1	CH comment			
[AO1_DATA] Ao 1		Engineering unit data			

Creating User's Original Views by JavaScript or HTML

Measured data strings can be output as JavaScript arrays. Users who have knowledge and skills of JavaScript language, HTML and CSS used to build a web site can freely create original trend graphs, bargraphs and graphic views. Analog input, analog output, discrete input, discrete output, trend data, event data and other variety of array files are available.



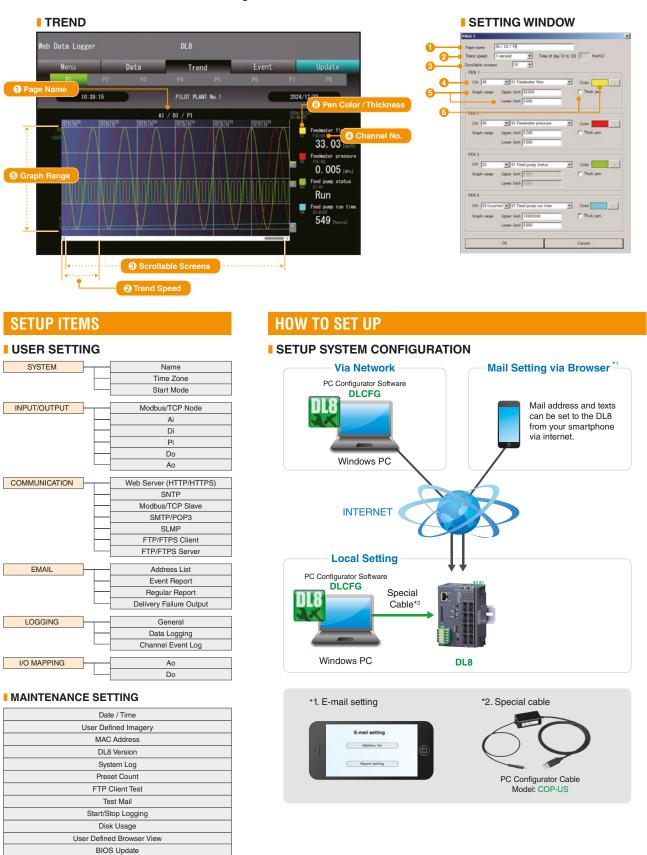
JAVASCRIPT ARRAY FILES

FILE NAME	DATA	VARIABLE DEFINITIIO	LEORMAT			ANALOG OUTPL
dl_header.js	Present time	var year,mon,day,hour var dl_time1="2024/10 var dl_time2="11:00:0(var dl_name1="name1	data_ao.js	equals the number of AO chan	,	
data_ai,;	Vame 2 Name 3 Number of AI channels (Number of array elements i AI Channel AI Ch name AI CH comment AI Engineering unit value AI % value [% x 100] AI Engineering unit	var dl_name2="name2 var dl_name3="name3 var ai_chs=16;	auth_level.js	AO Channel AO CH name AO CH comment AO Engineering unit value AO Engineering unit AO Channel No. Enable/Disable AO control AO Web control limit (lower) AO Web control limit (uuper) Authorization level	var ao_ch = ['AO1', 'AO2',]; var ao_name = ['AO1', 'AO2',]; var ao_comm = ['Ao-0001', 'Ao-00 var ao_real = [-20.00, 15.00,]; var ao_unit = ['%, "kg']; var ao_chno = [1,2,]; var ao_lower = [0,00,0.00,,0.00]; var ao_lower = [0,00,0.00,,0.00]; var ao_upper = [100,00,100.00,, var auth_level = 0; (0: Unauthorized 1: Autorized for r	100.00];
DISCRETE INPUT	Al Zone name Al Zone color Al Channel No. Number of DI channels Enable/Disable DI control	var ai_area = ["HH",'H", var ai_color =["#00FFF var ai_chno = [1,2, var di_chs=16; var di_enable = 0; (0: [trend_page.js trend_p1.js Trend (page 1)	Trend page name Page name Number of data samples Trend speed	2: Authorized for control) var trend_page = ["PAGE1","PAGE2 var trend_p1_pagename="PAGE1", var trend_p1_samples=720; var trend_p1_speed = "1S";	2","PAGE8",,
	(Number of array elements i	n the following format de var di_ch = ("DI1","DI2 var di_name = ("DI1","I var di_name = ("Di-00	: Trend trend_p8.js	Year data string Month data string Day data string	var trend_p1_year=[2024,,2024, var trend_p1_mon=[11,11,,11]; var trend_p1_day=[8,8,,8]; var trend_p1_hour=[9,9,,10] var trend_p1_min=[10,10,,23]; var trend_p1_min=[10,10,,23]; var trend_p1_min=[10,10,,23];	

DL8 SETUP / SYSTEM CONFIGURATIONS

S E T U P

The DLCFG PC Configurator software is available to customize the views with the user specific information and various parameters. The user-friendly program is easy to use for anyone without special knowledge about network and software. The DLCFG can be downloaded for free of charge at our web site.

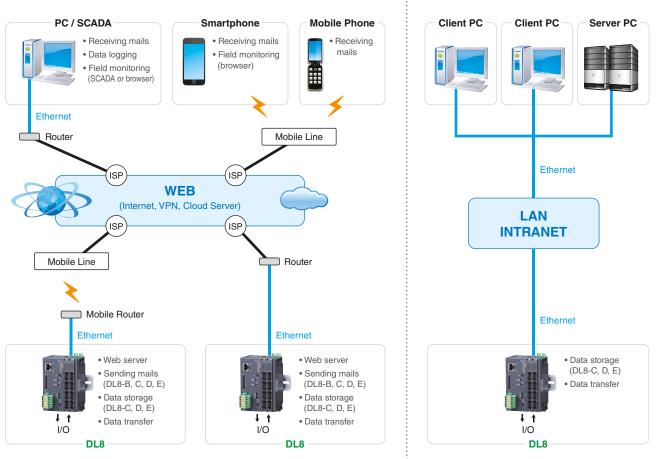


Web Data Logger DL8 Series

LAN

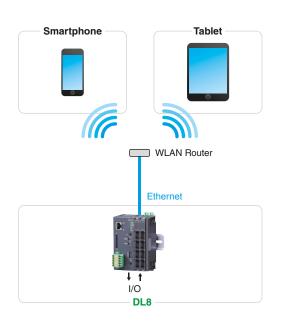
CONFIGURATIONS



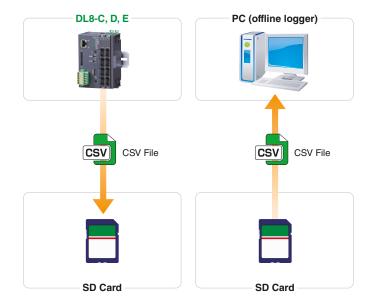


.....i

LOCAL WLAN



STAND-ALONE



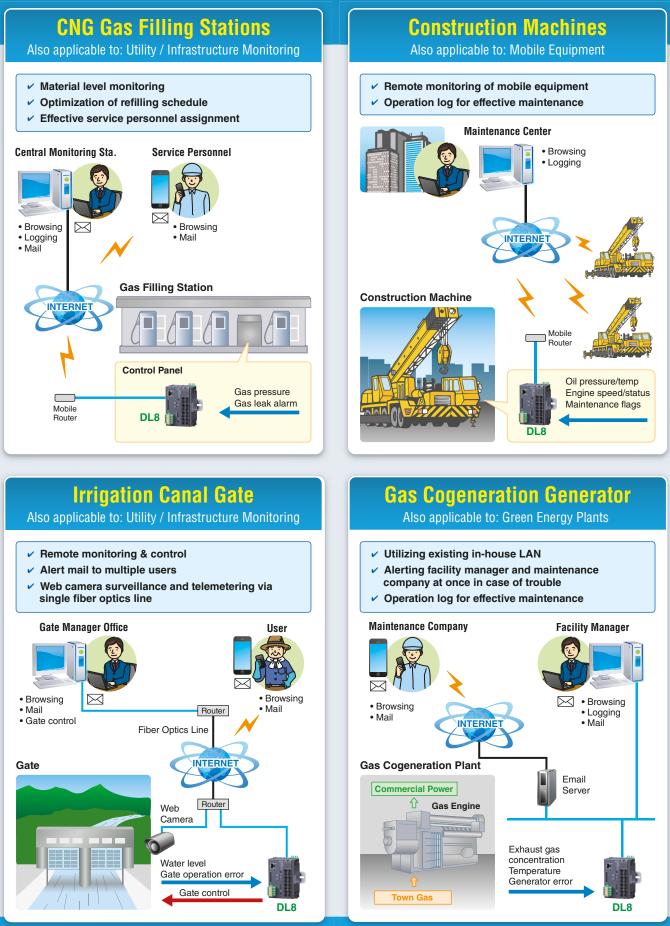
• About SD card (usable with DL8-C, D, E)

An SD card is required to save data. Use one of the types specified in the data sheet. SD cards can be purchased from us. Contact us for more information.

ISP : Internet Service Provider

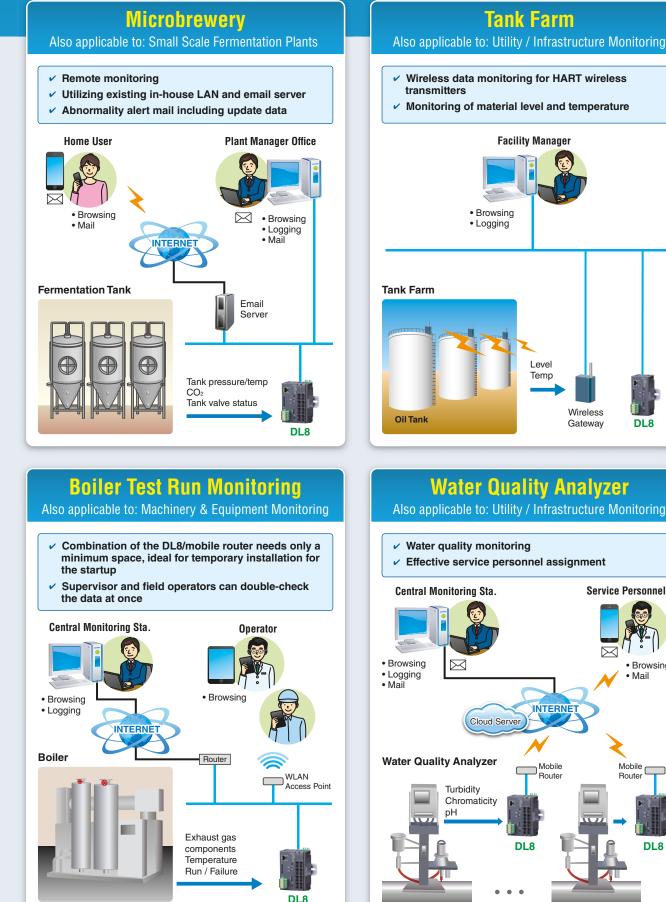
DL8 APPLICATION EXAMPLES

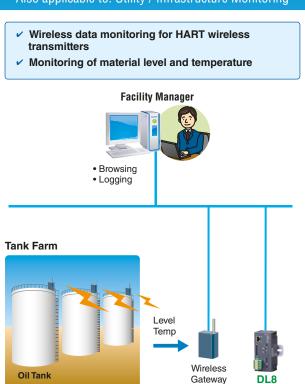
The DL8 web data logger is suitable for a wide variety of monitoring applications such as: construction machines, convenience stores, large equipment, elevated water tanks, wineries, breweries, electric furnaces, reservoir ponds, building, etc.

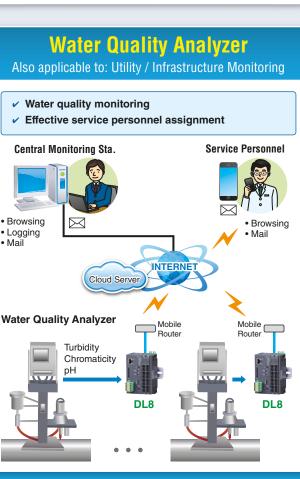


Web Data Logger DL8 Series









RTU MODULE SPECIFICATIONS

GENERAL SPECIFICATIONS

Max. number of I/O modules: 16

- (Max. consumption current of I/O modules: 1.6 A) Isolation: Ethernet to internal bus or internal power or power supply (exc. supply) to RUN contact output to FE Calendar clock: Year (4 digits), month, date, day,
- hour, minute, second Status indicator LED: POWER, LOGGING, SD
- CARD, SEND, COM, ERROR RUN contact output*1: Photo MOSFET relay (no
- polarity); (OFF in error detected) *1. Run contact output is applicable for Type C with the DL8 firmware version 1.4.x or later.

ETHERNET COMMUNICATION

Communication Standard: IEEE 802 3u Transmission: 10BASE-T, 100BASE-TX Baud rate: 10/100 Mbps (Auto Negotiation function) Protocol: TCP/IP, Modbus/TCP, SLMP, HTTP, HTTPS, FTP, FTPS, SMTP, SNTP Transmission media: 10BASE-T (STP, Category 5), 100BASE-TX (STP, Category 5e) Max. length of fieldbus segment: 100 meters Ethernet indicator LED: DPLX, LNK IP address: 192.168.0.1 (factory setting)

INSTALLATION

- Power input: 24 V DC Power consumption: Approx. 12 W 24 V DC @internal power max. current 1.6 A
- Approx. 2 W (at single mounting)
- Internal power supply (power supply for I/O module): 5 V DC, 1.6 A Excitation supply output (excitation for I/O module):
- 24 V DC ±10 %, operational current 7 A (From power supply (excitation supply) connector, via connector for internal bus, supplied to each I/O module. Power output current consumption must be under operational current.)
- Operating temperature: -10 to +55°C (14 to 131°F) Operating humidity: 30 to 90 %RH (non-condensing) Atmosphere: No corrosive gas or heavy dust Mounting: DIN rail Weight: 190 g (0.42 lb)

PERFORMANCE

- Battery: Vanadium-lithium secondary battery (undetachable) Calendar clock accuracy:
- Monthly deviation 2 minutes at 25°C
- Battery backup: Approx. 2 months
- Insulation resistance: ≥ 100 MΩ with 500 V DC
- Dielectric strength: 1500 V AC @ 1 minute (Ethernet to internal bus or internal power or power supply (exc. supply) to RUN contact output to FE)

COMPATIBLE BROWSING DEVICE

- Software requirement
- Functional checked environment PC
- OS: Windows 10 (32-bit/64-bit), Windows 11 • Browser: Microsoft Edge, Chrome, Firefox
- Tablet
 - OS: iPad (iPadOS 17.5.1);
- Android terminal (Android 14) • Browser: iOS: Safari; Android: Chrome
- Smart phone
- OS: iPhone (iOS 17.5.1);
- Android terminal (Android 14) • Browser: (iOS) Safari; (Android) Chrome

COMMUNICATION

- IP: DHCP client is supported. Manual setting of IP address, subnet mask, default gateway and DNS server available too.
- Modbus/TCP slave:
- Remote observation system via SCADA etc. Number of connections 4
- Modbus/TCP master: I/O expansion with remote I/O, e.g. R3 or R7 series, is available. Measuring points in multiple locations can be handled collectively.
- SLMP Client: DL8 allows I/O expansion by connecting with the SLMP-compatible CPU unit of Mitsubishi programmable-controller MELSEC; and collectively handles data from measuring points in multiple locations.
- Web server function (Direct):
 - This unit can be a Web server, and 'Data,' 'Trend' and 'Event Log' views are available from remote location.
- Web server function (Cloud):
 - This unit can be an FTP client, and upload the Web files to a cloud server.
 - Users can browse the cloud server.
 - Multiple users can access it at once without extra load at the unit. (only browsing, operation not available.)
- Analog input: 32 points
- Discrete input: 64 points
- Pulse input: 32 points
- Discrete output: 64 points Analog output: 32 points
- (firmware version of the unit: 1.4.x or later) (For pulse input, only 32 bit data is available. It is not available for the products using 16 bit data (model: R3-PA16 etc.).

ALARM OUTPUT

Event can trigger an alarm contact at a discrete output module.

Type B, C, D, E

Type C, D, E

- Transition of analog input zone
- · Transition of pulse input zone · Status change of discrete input
- Count up of discrete input

EVENT REPORTING Type B. C. D. E

Reporting email function available at event or designated time.

Encrypted communication is supported. (SMTP over SSL).

The DL8 turns a designated Do ON after transmitting the report.

- Number of email attention: 32
- Number of event report text: 32
- Number of regular report text: 1
- Channel status: AI, DI, PI, DO, AO status attachable to email (DO and AO are available with firmware version of the unit 1.4.x or later) Output at transmitting failure: 1 point

LOGGING

Your local representative:

- Log files in text format are stored into an SD card. The number of logs depends on the free space of the SD card.
 - · Log file: System log, event log, email report log, channel log

Refer to our website for information on the I/O modules.

FTP CLIENT Type B. C. D. E

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WEB DATA LOGGER DL8 SERII

The recorded data is uploaded to an FTP server and FTPS server (Type E) in CSV format in specified interval time

- User can define the CSV file.
 - Number of channel: Max. 32 (Selectable within AI, DI, DI (counter), PI, DO, AO) (AO is selectable with firmware version of the unit
 - 1.4.x or later) Sampling rate (Firmware version 1.6.x or later)
 - 1 or 2 sec (Interval time: 1 or 10 min. or 1 hr.) 5, 10 or 30 sec. (Interval time: 10 min. or 1 hr.) 1. 2. 5. 10. 15, 20 or 30 min. (Interval time: 1 day)
 - Sampling rate (Firmware version 1.2.x or later) 1 or 2 sec (Interval time: 1 or 10 min. or 1 hr.) 5, 10 or 30 sec. (Interval time: 10 min. or 1 hr.)
- 1, 2, 5, 10 or 30 min. (Interval time: 1 day) • Sampling rate (Firmware version 1.1.x or earlier) 1, 2, 5, 10 or 30 sec. (Interval time: 1 hr.) 1, 2, 5, 10 or 30 min. (Interval time: 1 day)

To confirm the firmware version, use the configurator software, model: DLCFG. Event can trigger an alarm contact at a discrete output module.

TREND DATA STORING Type C, D, E

The logged data is written into the SD card in CSV format.

- User can define the CSV file
- Number of channels: Max. 32 (Selectable within AI, DI, DI (counter), PI, DO, AO)
- (DO and AO are selectable with firmware version of the unit 1.4.x or later)
- AI sampling:
- Momentary, average, peak (max.), peak (min.) Logging rate: Second: 1, 2, 5, 10, 20, 30 sec.
- Minute: 1, 2, 5, 10, 15, 20, 30 min. (15 min. is selectable with firmware version 1.5.x or later)
- On the hour: 0 to 23 o'clock (1 or more times available; specify time delay for each set time) Day start time and days to log are available. • Recordable up to the SD card size.
- Automatically deleted. (Auto delete is available with firmware version of the unit 1.4.x or later) Recording period (as a guide):
- Approx. 180 days
- (logging rate: 1 sec, 32 channels, only trend storing)

FTP SERVER

- Reading and deleting files in the SD card by an FTP client and an FTPS client (Type E) are available. Compatible FTP client
 - FFFTP 5.6 Compatible FTPS client
- FFFTP 5.6

I/O MAPPING

Multiplex Data Transmission for remote I/O and IP telemeter is available by registering DI-to-DO or AI-to-AO mapping information.

USER DEFINED BROWSER VIEW

Type D, E

Type D. E

Type C, D, E

The browser view is user-definable. Development tools for HTML file are not available by us. Provide by customer



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