



## FOOD PROCESSING FACTORY

**Applicable Area :** Factory production lines

**Application :** Wastewater monitoring in factories

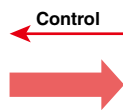
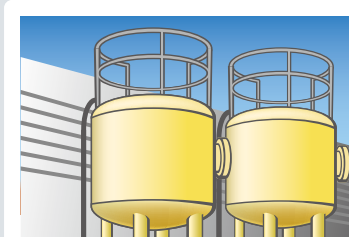
- The DL8 monitors measurement data from wastewater treated in a sewage treatment unit, such as the temperature, pH, water level, and ozone concentration, and also any abnormalities in related equipment.
- The data to be monitored is processed in advance after being imported into a PLC, and the DL8 accesses that data from the PLC using Modbus/TCP communication.
- Because it is connected to the in-house LAN, monitoring can be done from any arbitrary PC on the in-house LAN. As well, it sends e-mail notifications using the in-house e-mail server.
- The data is saved as CSV files on the SD card of the DL8 (type C), and a monthly report based on this data is created and managed using Excel.



### What's the focus?

- Since the data is collected using Ethernet (Modbus/TCP) communication, additional wiring is limited.
- Since the required data is accessed using Modbus/TCP communication, the addition or modification of monitoring points is very straightforward.
- Present values of each measuring item, to identify the status of equipment, can be included in the text of regular reports and abnormality/event e-mailing, and the on-site status can be understood once e-mails are received.
- Forms compiled from the CSV files on the SD card, accessed through FTP, are managed to enable collation and logging of measured values every month.

### On-site (sewage treatment facility)



**PLC**  
Temperature, pH, water level,  
ozone concentration,  
facility information (operation/malfunction), etc.

### Maintenance Personnel



ISP: Internet Service Provider

### Facilities Manager



Modbus/TCP



PC



E-mail Server

In-house LAN

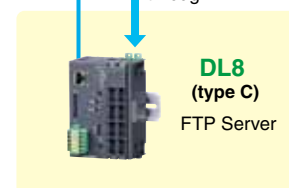


INTERNET

ISP

ADSL / Fiber Optics

CSV Data accessed through FTP



**DL8 (type C)**  
FTP Server

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