

Reducing the Risk of Shutdowns Through Continuous Monitoring of Wastewater Quality

Wide Area Monitoring System

Are you having any problems like this?

Equipment Drainage System

Problems It is difficult to patrol drainage facilities that are far apart in order to check water quality.



▶ Continuous monitoring is desirable to keep the pH and COD (*chemical oxygen demand*, a water pollution indicator) of wastewater within the legal limits. However at present, confirmation is carried out through regular patrol inspections.

▶ If water quality falls outside specified limits, wastewater treatment is stopped, risking shutdowns because wastewater cannot be discharged until water quality is improved.



Easy to start using! Wide Area Monitoring System solves remote monitoring issues



Facilities that exist in a wide area can be integrated and managed through remote monitoring.

The cloud can be used to reduce time and costs, and to efficiently build monitoring systems.



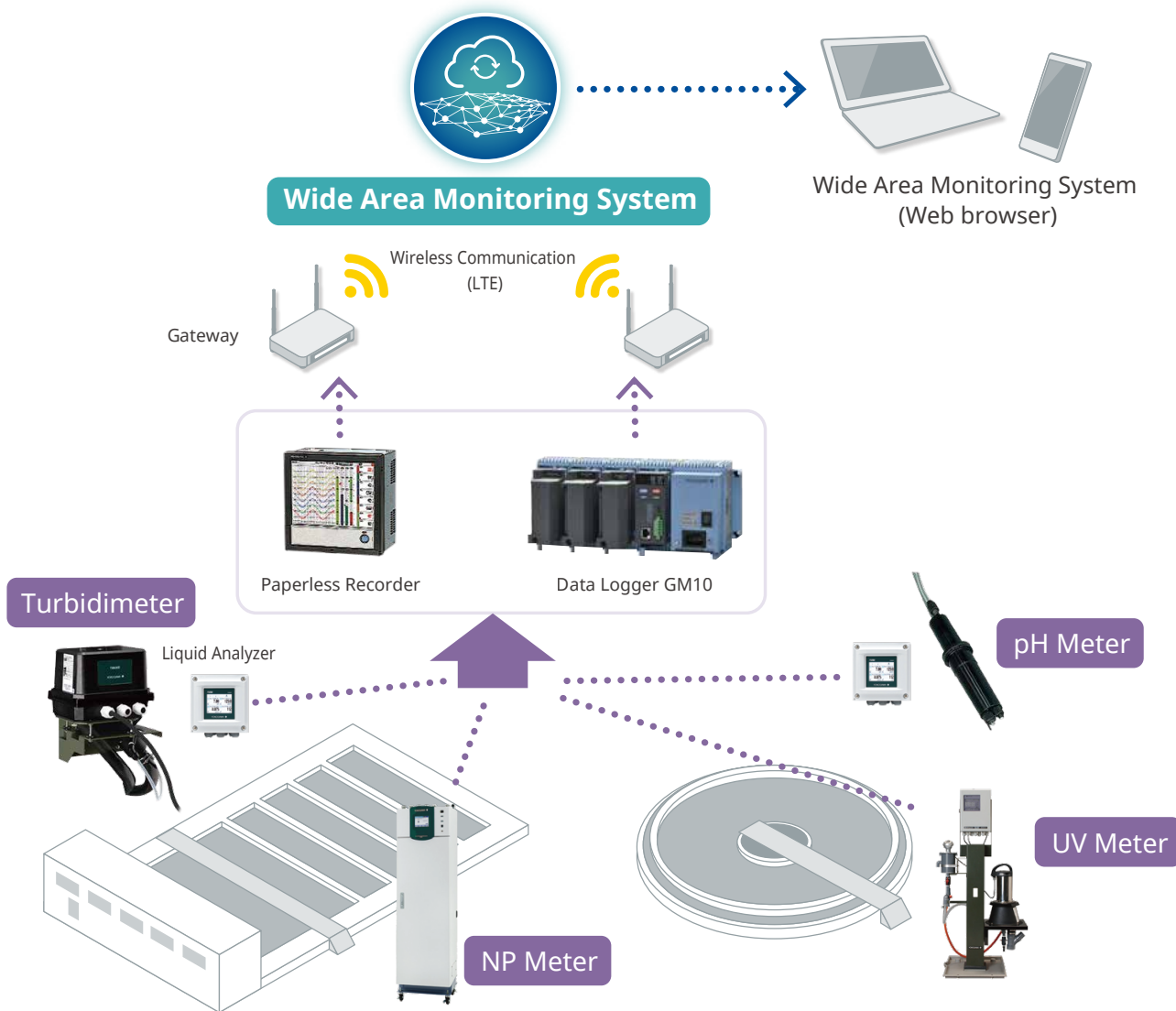
Value through problem solving

- ☒ By continuously monitoring wastewater quality, it is possible to predict changes in water quality.
- ☒ By detecting changes in wastewater quality, it is possible to respond quickly when the threshold is exceeded.
- ☒ By enabling remote monitoring, the number of man-hours required for patrols can be significantly reduced.



Proposed System Configuration

The pollution measurement devices for wastewater such as pH meters and UV meters are placed in various locations around the site. Sensor values from these devices are collected in paperless recorders and data loggers, and the data is monitored using the Wide Area Monitoring System. This allows the system to issue alarms when threshold values are exceeded, and also to issue pH and COD trend reports for each facility.



► Devices

Category	Product	Notes
Cloud	Wide Area Monitoring System	Data acquisition interval: 5 min. or more, 50 measured data
Communication	Wireless Communication Connection License	
Comm. devices/data acquisition	Gateway/Paperless Recorder, Data Logger	
Sensor	Turbidimeter, NP Meter, UV Meter, pH Meter	

► Industries Chemical, water and sewage, civil engineering and construction

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[Ed:01/d]

Printed in Japan, 504(AZ)