



**GS Yuasa to Commence Sales of “DATAWINDOW-S” Storage Battery Monitoring System
-GS Yuasa Working to Expand and Enhance its IoT-based Koto Zukuri (Service Creation)
Services-**

GS Yuasa Corporation (Tokyo Stock Exchange: 6674; “GS Yuasa”) today announced that GS Yuasa International Ltd. (“GS Yuasa International”) is to commence sales of DATAWINDOW-S, a storage battery monitoring system.

The DATAWINDOW-S system automatically measures on a regular basis the voltage, internal resistance, and temperature of industrial valve-regulated lead-acid batteries used as backup electricity sources at infrastructural facilities, etc. to detect signs of abnormality and end-of-life indications early on to facilitate preventive maintenance of storage battery systems.

GS Yuasa storage battery systems are used in a wide range of sites as backup electricity sources, including at infrastructural facilities requiring high levels of reliability such as power plants, transformer stations, railway facilities, and communication base stations. They are also used as backup systems for office buildings as well as emergency lighting, security cameras, and so on.

Use of the DATAWINDOW-S system to monitor these storage battery systems will help to ensure the soundness of storage battery systems through constant monitoring, facilitate swift maintenance response through remote monitoring, and also reduce maintenance workloads. In addition, utilization of data recorded by the DATAWINDOW-S system will support the drafting of optimal update plans.

GS Yuasa International will continue to enhance the reliability and functions of storage battery systems and enhance its product lineup to protect important equipment and data from power outages due to disasters, etc. At the same time, the company will strive to deliver safety and security to customers and contribute to the realization of a safer and more secure society not only through its Mono Zukuri (product creation) activities but also through working to enhance and expand the range of the Koto Zukuri (service creation) services it provides.

[Features]

1. Wide-area monitoring function

Able to monitor as many as 540 batteries in up to four units connected in parallel.

2. Alarm designed with convenience of maintenance in mind

Highly versatile, no-voltage alarm contact output.

Notification of abnormalities can be sent to multiple email addresses.

3. Highly versatile network functions

Control units are installed with a web server function to enable users to monitor a range of data from a browser using SSL/TLS communication.

Compatible with SNMP and Modbus/TCP.

[Basic system specifications]

System configuration		Control unit Sensor units AC power supply unit	
Sensor unit lineup		3 types (2V, 4/6V, 12V storage battery types)	
Operating environment		Temperature: -10 to 50C° Humidity: 10 to 90%	Ensure operating environment is free from condensation
Control unit/sensor unit communications		Near-field communication (2.4GHz band)	
Automatic time correction function		Connection to NTP server is required	
Control unit	Body material and color	Flame-retardant ABS resin Dark gray	UL94-V0 oxygen index of 26 or higher
	External dimensions	200mm x 200mm x 60mm	W x H x D
	Weight	Approx. 1.5kg	
	Display	4.3-inch wide color liquid crystal touch panel	
Sensor unit	Body material and color	Flame-retardant ABS resin Natural	UL94-V0 oxygen index of 26 or higher
	External dimensions	65mm x 50mm x 15mm	W x H x D
	Weight	Approx. 60g	

[Images]

1. DATAWINDOW-S sensor unit (front) and control unit (back).



2. Examples of monitoring screens

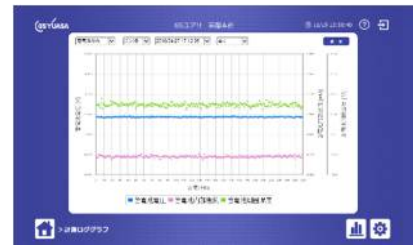
Easy-to-operate graphical touchscreen interface. Can easily be operated and configured using a PC or tablet.



Status screen



Data log screen



Graph display screen

3. Example of installation in a storage battery system.



Overall system



Example of installation of sensor units on storage batteries