

Launch of new wireless RICOH EH Environment Sensor D201/202 requiring no battery replacement

Maintenance-free monitoring of refrigerated, high temperature, and high humidity environments

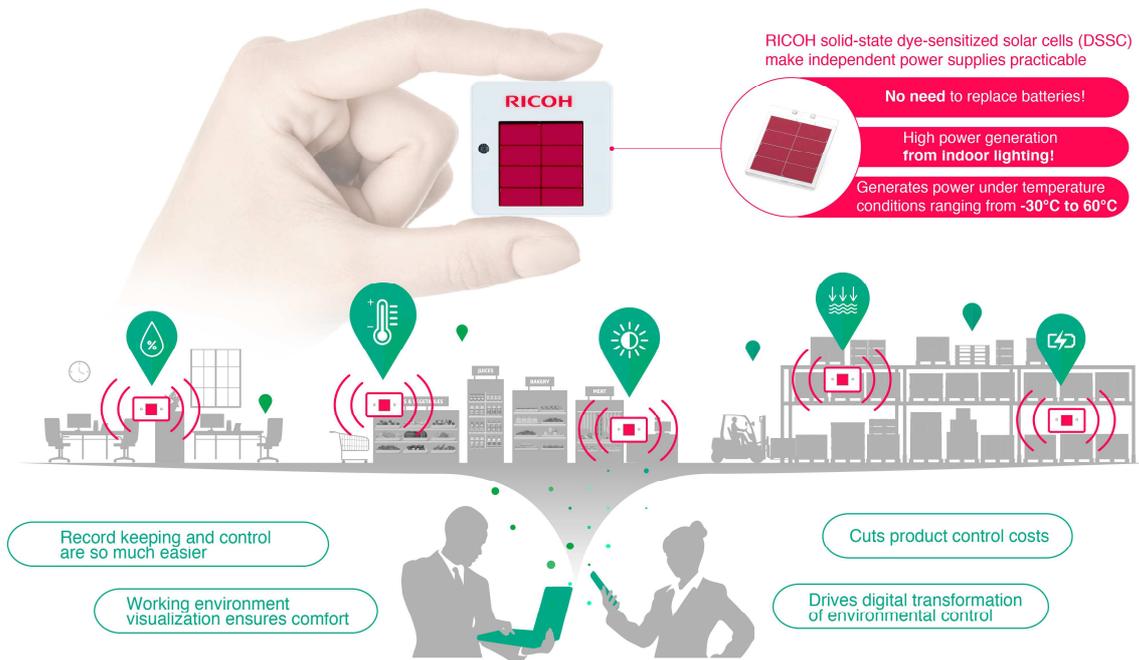
TOKYO, September 28, 2021 – Ricoh Company, Ltd. announces the launch of new environmental sensing devices, RICOH EH Environment Sensor D201/202¹. Customers can use these new devices in refrigerated, high-temperature, and high-humidity environments to acquire environmental information such as indoor temperature, humidity, illuminance, and air pressure without replacing batteries or relying on a wired connection. The acquired data, collected by Bluetooth® wireless technology or Wi-Fi™², can be monitored in real-time on a PC or smart device, automatically saved and alerts can be set. This system contributes to the digital transformation of environmental management. by eliminating the need for manual temperature and humidity recording, battery replacement, and wiring at locations such as food processing and manufacturing facilities, as well as retail stores.

These new products are the successors to the RICOH EH Environment Sensor D101, launched in October 2020. They are equipped with the latest solid-state dye-sensitized solar cell (DSSC) module, the RICOH EH DSSC Series, which has improved power output by 20%. Unlike its predecessor, the new D201/202 can operate under a temperature range of -30°C to 60°C. In addition, the improved packaging for the D202 is waterproof and dustproof, significantly expanding usage scenarios.

In pursuit of realizing “A World Without Charging,” Ricoh will continue developing technologies to increase the output power and durability of environmental power generating devices. This will expand their applications as independent power sources for sensing devices, light-emitting devices, and switches.

¹ Availability in Europe from in the first half of 2022

² Wi-Fi connectivity requires the “RICOH EH Relay for Wi-Fi™”



Usage scenarios for the RICOH EH Environmental Sensor D201/D202

Usage scenarios

- Temperature and humidity control for factories and warehouses
- Temperature control in food processing and manufacturing industries
- Temperature control of refrigerators and freezers
- Temperature, humidity, and light control of office space

Features

1. Operates in low light: Can be used in dim lighting, such as near warehouse or factory walls or recessed areas
2. Wide temperature range: Operates under a temperature range of -30°C to 60°C
3. Compact size: W43mm x D41mm x H14mm¹, small enough to be installed in a variety of locations
4. Multi-sensing function: Measures temperature, humidity, illuminance, atmospheric pressure, and voltage of the built-in lithium-ion battery
5. Interface with PCs and smart devices: Software available for Windows® PC and smart device (Android™)
6. Enhanced product lineup: IP44² waterproof and dustproof model³

1 For RICOH EH Environment Sensor D201

2 IP: IEC (International Electrotechnical Commission) standard

3 RICOH EH Environment Sensor D202 model



RICOH EH Environment Sensor D201(left)/202(right)



RICOH EH DSSC2832a: A solid-state dye-sensitized solar cell module (DSSC)



RICOH EH Relay for Wi-Fi™

Related links

RICOH EH Environment Sensor D101

<https://industry.ricoh.com/en/dye-sensitized-solar-cell/sensor>

Solid-State Dye-Sensitized Solar Cells

<https://industry.ricoh.com/en/dye-sensitized-solar-cell>

Related News

Launch of new RICOH EH DSSC modules with 20% increase in power generation

https://www.ricoh.com/release/2021/0513_1/

Ricoh launches the world's first solid-state dye-sensitized solar cell modules

https://www.ricoh.com/release/2020/0204_1/

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With cultivated knowledge and organizational capabilities nurtured over its 85-years history, Ricoh is a leading provider of digital services and information management, and print and imaging solutions designed to support digital transformation and optimize business performance.

Headquartered in Tokyo, Ricoh Group has major operations throughout the world and its products and services now reach customers in approximately 200 countries and regions. In the financial year ended March 2021, Ricoh Group had worldwide sales of 1,682 billion yen (approx. 15.1 billion USD).

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