

## Switch Mode Power Supplies



10101010101



# Production Site Innovation inspired by **IoT**

The production site of the future that OMRON aims to create is one where the health status of its facilities, invisible today, becomes visible.

- Conditions are visible, anytime, anywhere.
- Information is displayed collectively by equipment/site.
- Past data is retrievable.

Facility conditions will be visualized by IoT and seamlessly connected to other sites all over the world. Facility operating rate will be systematically maintained; the way of working will be dramatically changed.





Until now...

### A new style of facility maintenance brought

Visualizing and centrally controlling the condition of power supplies enables you to systematize equipment maintenance before equipment trouble occurs, eliminating unexpected response and unnecessary premature replacement, and thus reducing the overall maintenance cost.

Equipment conditions are not visible; you need to inspect them one by one on site to identify defective equipment.

......

You need to rush to the site of a failure upon receipt of a trouble report.

> Preventive replacement long before the service life of equipment increases the maintenance cost.

#### 

### about by the visualization of power supplies

### Centralized monitoring of equipment conditions

The voltage, current, and replacement time of power supplies are centrally monitored by line or site.

### Improved accuracy of maintenance planning

From now on

Voltage

Current

Replacement

time

Statistical use of past data enables you to identify the appropriate schedule and method for maintenance.

Tokyo

1.3 A

4 years

24.1 V 24.2 V 12.1 V 23.8 V 24.1

0.5 A

1.5 year

9.1 A 18.8

2.0 A

3 years

### Enhanced facility operating rate and optimized maintenance cost

Improved accuracy of maintenance planning prevents unexpected equipment shutdown, achieves maintenance at the most appropriate schedule and cost, and thus optimizes the maintenance cost.

### The first step in scheduled maintenance: visualization of the time to replace power supplies.

S8VK-X calculates the deterioration of the internal electrolytic capacitor based on its component's temperature. It is indicated on the display as well as via the communications system.



### **OMRON** 7

### Why don't you change your power supply to S8VK-X to achieve a new style of facility maintenance?

220 mm



S8VS 240-W models

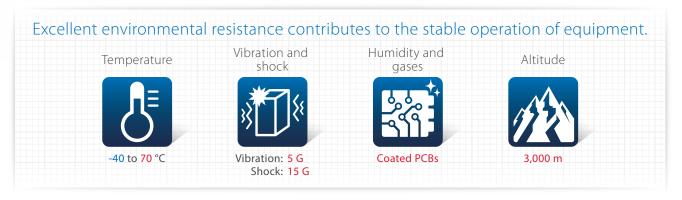
The space-saving design enables you to mount side-by-side and replace conventional power supplies in a control panel smoothly.

\*1. According to OMRON investigation in October 2017.

Switch Mode Power Supplies

116 mm\*2

\*2. Two units of S8VK-X 240 W and W4S1-03B Switching Hub





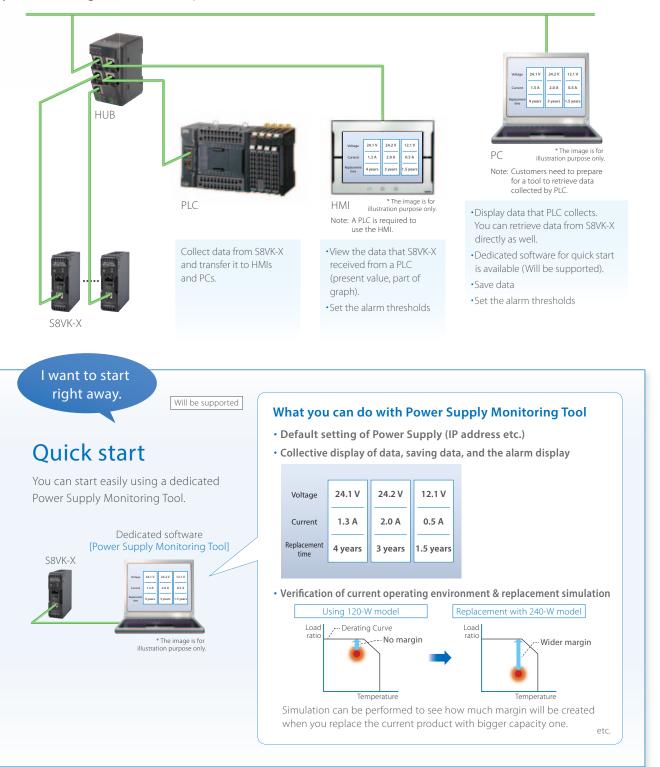
Our shared Value Design for Panel (herein after referred to as Value Design) concept for the specifications of products used in control panels will create new value to our customer's control panels. Combining multiple products that share the Value Design concept will further increase the value provided to control panels.



Compatible with the communication methods used globally in a variety of applications

Compatible with EtherNet/IP / Modbus

System configuration example

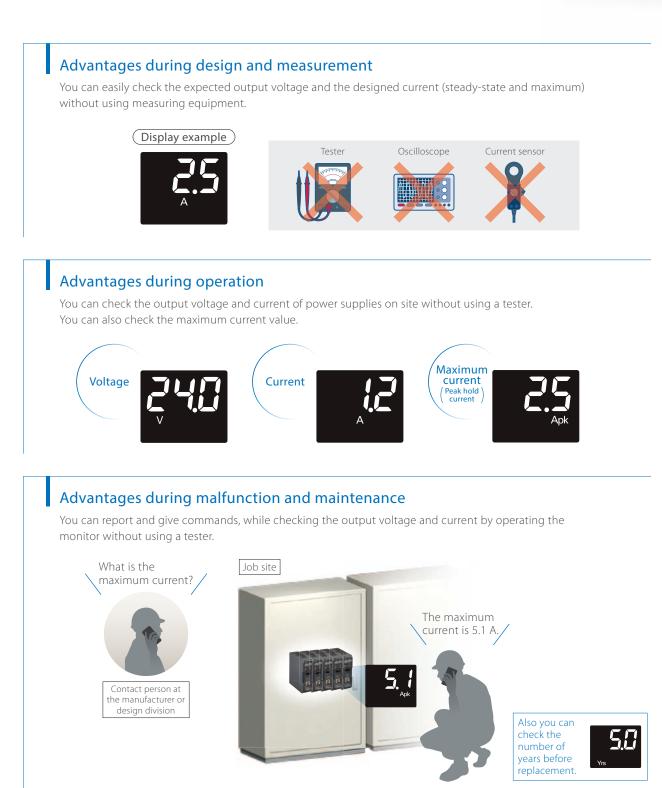


### **OMRON** 9

### The status is displayed on the Power Supply monitor; More and more useful in various applications.



#### Easy to read white LED characters



### Communications and display items

ltem		Monitor display	Communication		
			Ether CIP message	net/IP Tag data link	Modbus TCP
Output voltage		$\checkmark$	Read	Read	Read
Output current		$\checkmark$	Read	Read	Read
Output peak hold current		$\checkmark$	Read and write*	Read	Read and write*
Years until replacement Percentage until replacement		$\checkmark$	Read	Read	Read
Total run time		$\checkmark$	Read	Read	Read
Continuous run time		$\checkmark$	Read	Read	Read
Self-diagnostics	Overheating alarm	$\checkmark$	Read	Read	Read
	Measured value error	$\checkmark$	Read	Read	Read
	Memory error	$\checkmark$	Read	Read	Read
Product model			Read	Read	Read
Serial number			Read	Read	Read
Firmware version			Read	Read	Read
IP address Subnet mask Default gateway		_	Read and write	Read	Read and write
MAC address		—	Read	Read	Read

\* Pressing the reset key or communications writing (Ethernet/IP CIP message or Modbus/TCP) resets the value to 0.

EtherNet/IP<sup>™</sup> is the trademarks of ODVA.

Modbus is a registered trademark of Schneider Electric.

Other company names and product names in this document are the trademarks or registered rademarks of their respective companies.

OMRON Corporation Industria Kyoto, JAPAN	I Automation Company	Authorized Distributor:
Contact: www.ia.om		
<b>Regional Headquarters</b> <b>OMRON EUROPE B.V.</b> Wegalaan 67-69, 2132 JD Hoofddorp The Netherlands Tel: (31)2356-81-300/Fax: (31)2356-81-388	OMRON ELECTRONICS LLC 2895 Greenspoint Parkway, Suite 200 Hoffman Estates, IL 60169 U.S.A. Tel: (1) 847-843-7900/Fax: (1) 847-843-7787	
OMRON ASIA PACIFIC PTE. LTD. No. 438A Alexandra Road # 05-05/08 (Lobby 2), Alexandra Technopark, Singapore 119967 Tel: (65) 6835-3011/Fax: (65) 6835-2711	OMRON (CHINA) CO., LTD. Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road, PuDong New Area, Shanghai, 200120, China Tel: (86) 21-5037-2220/Fax: (86) 21-5037-2200	© OMRON Corporation 2017 All Rights Reserved. In the interest of product improvement, specifications are subject to change without notice. CSM_1_1_1117 Cat. No. T211-E1-01 1117(1117)