



OpreX™Components

Multi-Sensing Remote I/O VZ20X Analog Sensing Unit

Realize Non-Stop Production

manufacturing equipment

The VZ20X Analog Sensing Unit provides compact and reliable sensing for production equipment experiencing sudden performance degradation or downtime resulting in reduced utilization rate and safety, and helps customer visualize and improve operations on site.

♦ Equipment maintenance solution ♦ Benefit Visualizes the signs of equipment Customers want to inspect and replace industrial machinery Provides reliable data degradation through high-speed in a timely manner. Reduces maintenance labor and opportunity loss simultaneous measurement. Customers want to perform a deterioration diagnosis, but Offers a compact unit that can be Acquires diagnostic information for continuous they don't have any device which can be installed on their installed in a variety of facilities with improvement regardless of the industrial machines in current industrial machine in terms of size and performance. sufficient performance for diagnostics. Customers want to prevent breakdowns in industrial Offers a highly noise resistant and highly Enables cause analysis with highly reliable data



accurate measurement unit.

♦ Product and component evaluation solution ♦ Problem Solution Benefit

Customers want to accurately judge the production quality of products and components. and high-accuracy measurement.

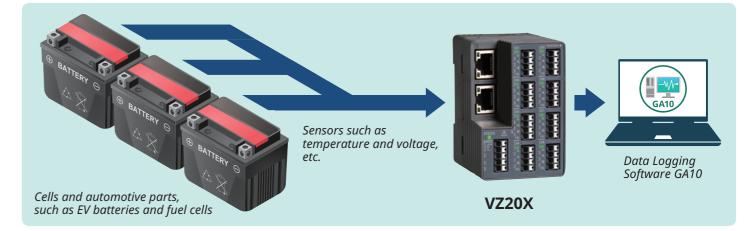
Customers want to be able to test regardless of product/component characteristics and test environment.

Enables high-quality inspection with high-speed

Enables safe testing with insulation between input channels and noise resistance.

Provides reliable data Prevents product defects

Prevents problems Reduces troubleshooting work

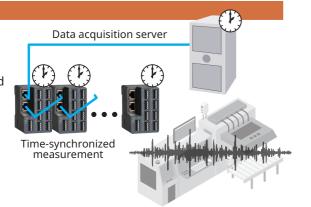


Features ·

Reliable Sensing

machinery in noisy environments.

- ☐ Measures 8 channels of analog input on a single unit with highspeed (1 ms) sampling.
- ☐ Multi-channel time-synchronized measurements (up to 15 units and 120 channels).
- ☐ Isolated input channels for reliability even in noisy



Compact, inst alls anywhere

☐ Compact enough to fit between production equipment.

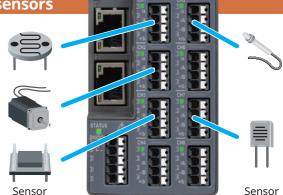
Business card

☐ Install simply by inserting the ferrule terminal with a push-in terminal.



Supports any analog sensors

☐ DC voltage, unified signal, 4-wire resistor, thermocouple (TC), and 3-wire/4-wire RTD can be measured in one unit.



OpreX Components: VZ20X Analog Sensing Unit 2

Model and Suffix Codes



VZ Configurator		
V7 Certify, at a text	more come come	
	4	
Connection method: Ethernet or USB		

Model	Suffix Code	Descriptions
VZ20X	-1N1ND	Analog Sensing Unit • 8 Universal inputs (DC voltage, Standard signal, Resistance, Thermocouple (TC), Resistance Temperature Detector (RTD)) • Ethernet communication 2-port • 24 VDC power supply

Product Overview

Item	Specification
Number of inputs	8 channels
Input types	DC voltage, unified signal, 4-wire resistor, thermocouple, and 3-wire/4-wire RTD
Data acquisition interval	1 ms (fastest), 8 channels simultaneous measurement
Meas. synch. accuracy	Within ±100 µs (between input channels, between units)
Measurement accuracy	0.025% of FS (with DC voltage, and power supply frequency noise removal filter enabled)
Withstanding voltage	3,000 VAC (50 Hz/60 Hz) 1 min. (between analog input channels, analog input-to-internal circuit)
Power supply	24 VDC or USB (Type C)
Operating temperature/humidity	-10–55°C (DIN rail-mounted), -10–50°C (on desktop installation) /5–90% RH
Wiring	Push-in terminal, Ferrule terminal
Size	Height (H) 78 x width (W) 50 x depth (D) 65 mm
Ethernet communication	2 ports, protocol: Modbus/TCP, GA10 dedicated protocol
Installation	DIN rail-mounted, On desktop installation

VZ Configurator Tool (Free download)

Function	Description	
Parameter settings	Input range/scale, Ethernet communication conditions	
Monitor function	Real time monitoring	Self-diagnosis
Maintenance	Firmware update	Input adjustment

*For the general specifications (GS 77V01B01-01EN), see our website or Partner Portal.

Web site

See the general specifications for details. For questions on the VZ20X, see our FAQ.



User Registration Request

Thank you for purchasing YOKOGAWA products. Please register to the following Partner Portal Member Site. You can use various services such as confirmation of purchased product information, download of related materials, and newsletter.



https://www.yokogawa.com/ns/vz/

https://partner.yokogawa.com/global/

OpreX[™] Through the comprehensive OpreX portfolio of products, services, and solutions, Yokogawa enables operational excellence across the enterprise.

Trademarks

All brand or product names of Yokogawa Electric Corporation in this bulletin are trademarks or registered trademarks of Yokogawa Electric Corporation. All other company brand or product names in this bulletin are trademarks or registered trademarks of their respective holders.

YOKOGAWA ELECTRIC CORPORATION

Edge Solution Business Division http://www.yokogawa.com/ E-mail: ns@cs.jp.yokogawa.com

YOKOGAWA ENGINEERING ASIA PTE. LTD. YOKOGAWA ELECTRIC KOREA CO. LTD. YOKOGAWA INDIA LTD.

http://www.yokogawa.com/sg/ http://www.yokogawa.com/kr/ http://www.yokogawa.com/in/

Subject to change without notice. All Rights Reserved. Copyright © 2021, Yokogawa Electric Corporation

Printed in Japan, 106(KP) [Ed:01/b]

