



OpreX™Components

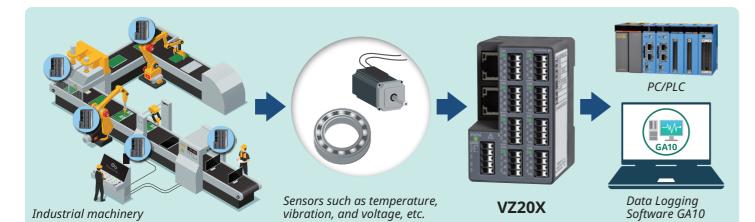
Multi-Sensing Remote I/O VZ20X Analog Sensing Unit

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 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



sufficient performance for diagnostics.

Offers a highly noise resistant and highly

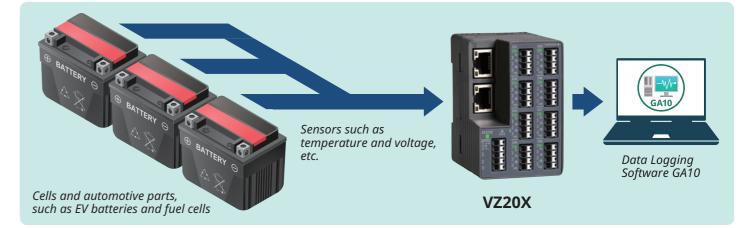
accurate measurement unit.

♦ Product and component evaluation solution ♦ Problem Solution Benefit Provides reliable data Customers want to accurately judge the production Enables high-quality inspection with high-speed quality of products and components. and high-accuracy measurement. Prevents product defects

Customers want to be able to test regardless Enables safe testing with insulation between input of product/component characteristics and channels and noise resistance. test environment.

Prevents problems

Reduces troubleshooting work



Features ·

Reliable Sensing

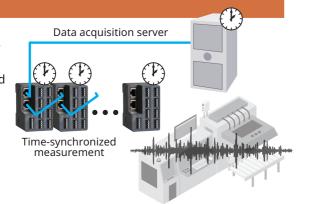
in a timely manner.

current industrial machine in terms of size and performance.

Customers want to prevent breakdowns in industrial

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.

Enables cause analysis with highly reliable data

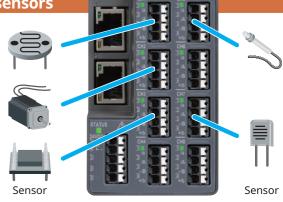
Business card

☐ 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



	-	
NOTE AND NOT		
7	CH1	CH5 YOMOGAWA +
9		
	2 /A	2 /A (■ ■
	2./8	- B (■
	-/b	±+/b
	CH2	CH6
	2 /A	2 /A
	3./B	≟./B
	+ b	±+/b
	СНЗ	CH7
	1 (a)	
	3 /A (18)	3 /A (10 11)
STATUS 1	B/B	
	±+/b	+/b
24VDC	CH4	CH8
ar. 📆 💽	1 a B	7a 🕒 💆
	3 /A ()	, A
3	+10	+/b

VZ Configurator		
97 Confligurator ************************************	**************************************	
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.



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

