

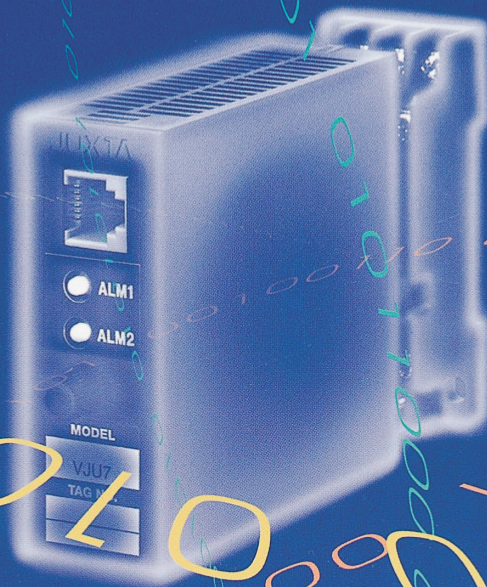
Compact, Plug-in Type JUXTA

JUXTA VJ Series



Introducing Feature-Laden Products!

- VJU7 Universal Temperature Converter
- VJH7 Isolator
- VJA7 Distributor
- VJS7 Potentiometer Transmitter
- VJX7 Universal Computing Unit
- VJP8 Pulse Rate Converter
- VJQ7 Analog/Pulse Transmitter
- VJQ8 Pulse/Analog Transmitter
- VJ77 PC-based Parameters Setting Tool



**Input type and measurement range
selectable at the work site !**

Simultaneous output of alarm and analog !

Direct communication with PC possible !

2 isolated current outputs possible !

Operable on power supply available throughout the world !

Withstand voltages up to 2000 V !

**What's more, robust product comes
with a 3-year warranty !**

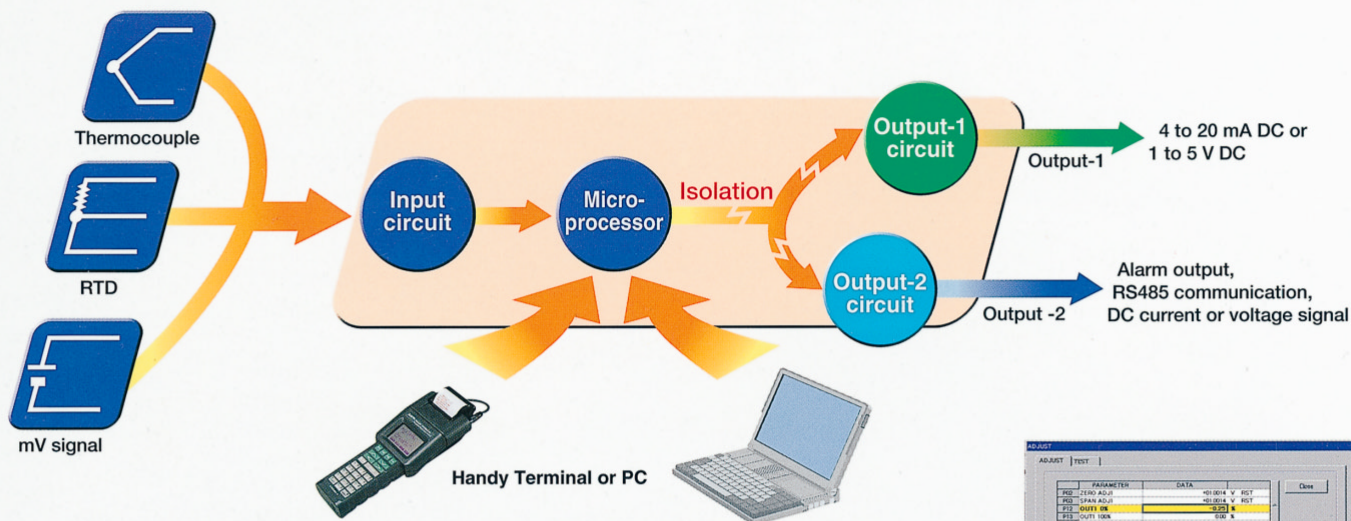


Certification has been acquired by both
the head office and the Moriyama Branch.



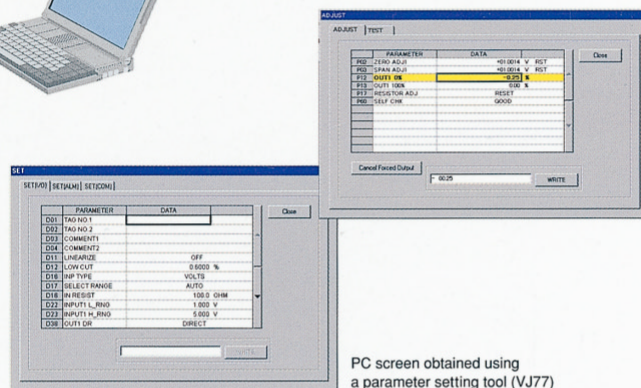
You can set the unit as desired to accept different input types.

The VJU7 Universal Temperature Converter permits the input type and the measurement range of thermocouple, RTD or mV signal to be set freely within the specification range at the work site.



Input type	Measurement range
Type of thermocouple sensor	°C
Type K	-200 to 1200
Type E	-200 to 800
Type J	0 to 750
Type T	-200 to 350
Type R	0 to 1600
Type S	0 to 1600
Type B	600 to 1700
Type N	-200 to 1200
Type W97Re3-W75Re25	0 to 2000
Type W95Re5-W74Re26	0 to 2000

Input type	Measurement range
Type of RTD sensor	°C
Pt100(ITS-90)	-200 to 660
Pt100(IPT5-68)	-200 to 660
JPt100(JIS'89)	-200 to 510
Pt50(JIS'81)	-200 to 649
mV (DC voltage)	mV DC
	-10 to 100



PC screen obtained using a parameter setting tool (VJ77)

A wealth of functions in a compact body

■ Compact design for space saving

The external dimensions are 76 mm (H) × 29.5 mm (W) × 124.5 mm (D).

■ Universal input

The unit can be set as desired to accept either a thermocouple, RTD or mV signal.

■ Alarm output

Analog and alarm signals can be output simultaneously from one unit.

■ Communication function

An analog output and a communication function can be obtained simultaneously from one unit.

■ Two isolated current outputs

The standard unit comes with two isolated current outputs (4 to 20 mA DC/4 to 20 mA DC).

■ The unit operates on power supply voltages used throughout the world.

The unit can run on both AC and DC voltages over the range of 100 to 240 V (-15, +10%, 50/60 Hz) and also on 15 to 30 V DC (±20%).

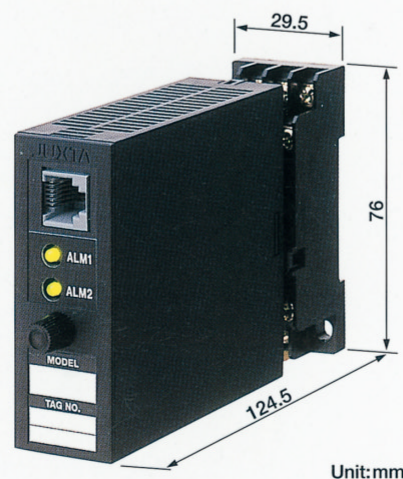
■ Withstand voltage

The standard withstand voltage for a unit of this size is 2000 V.

■ Compliance with overseas safety standards

CE, CSA, UL (Application for certification made.)

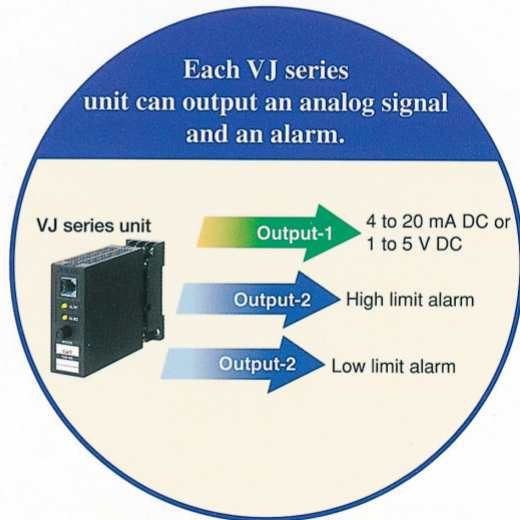
■ Dimensions



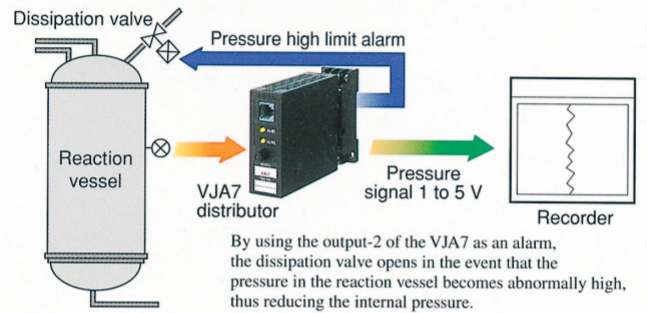
Unit:mm

Analog and alarm signals can be output simultaneously from one unit.

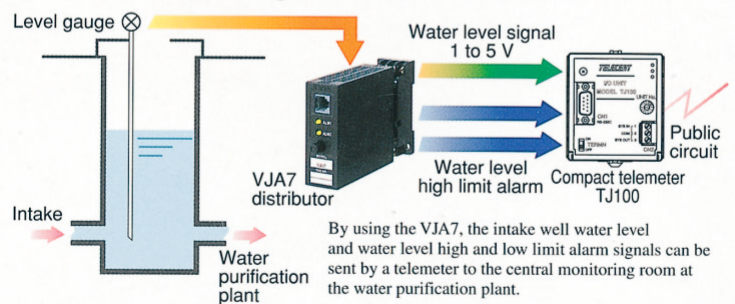
Each VJ series unit can output the input signals from various sensors as an analog signal, together with one alarm (two relay contacts), thus contributing to reduced loop costs.



Monitoring of pressure in a reaction vessel



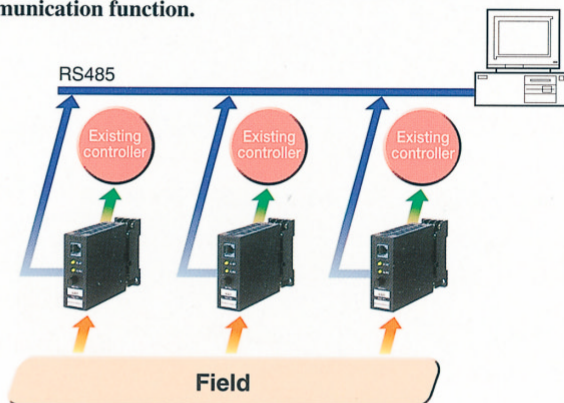
Remote monitoring of water level in an intake well



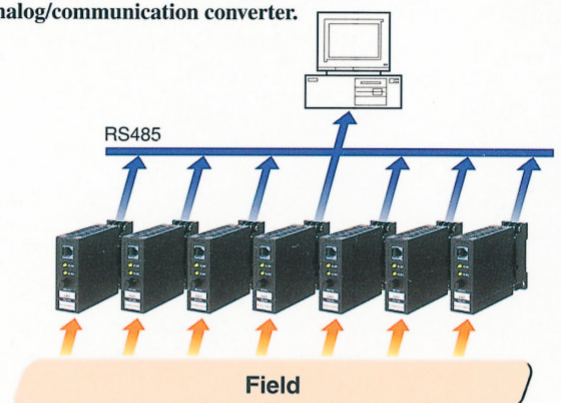
An analog output and a communication function can be obtained simultaneously from one unit.

Each VJ series unit can be set in such a way that the output-1 is the analog signal output and the output-2 is a communication function (RS485), thus enabling the measured values to be sent to a PC or a PLC (sequencer). The communication protocols that can be used are MODBUS, ASCII, MODBUS RTU, PC-link, PC-link with SUM, and ladder communication.

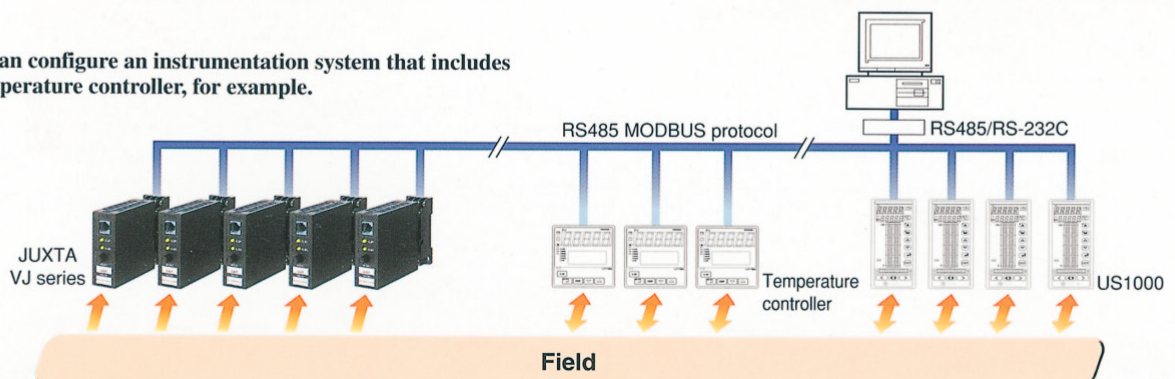
The VJ series enables you to configure a PC monitoring system, even if the controller that you are using does not have a communication function.



The VJ series enables you to communicate directly with a PC, even you are not using an analog/communication converter.



You can configure an instrumentation system that includes a temperature controller, for example.



The JUXTA VJ Series

Specifications

VJU7 Universal Temperature Converter

Input signal : Thermocouple, RTD, or mV signal
(Refer to measurement range table on page 2)

VJH7 Isolator

Input signal : Within 0 to 50mA DC with a span of 5mA or more
Within -10 to +10V DC with a span of 0.1V or more

VJA7 Distributor

Input signal : 4 to 20mA DC from 2-wire type transmitter
Transmitter power supply voltage : 24 to 28V DC

VJS7 Potentiometer Transmitter

Input signal : Resistance change from potentiometer (3-wire type)
Measurement Range : Total resistance: 100Ω to 10kΩ
Measurement span: 80Ω or more

VJX7 Universal Computing Unit

Input signal : Within 0 to 50mA DC with a span of 5mA or more
Within -10 to +10V DC with a span of 0.1V or more
Function : Free program, moving average, dead time, first order lag, first order lead, velocity limiter, velocity computation, linearizer, ratio setter

VJP8 Pulse Rate Converter

Input signal : Contact pulse, voltage pulse, or current pulse
Input frequency : 0 to 100kHz
Output-1 : Open collector or contactless AC switch
Output frequency : 0 to 100kHz (Contactless AC switch: 0 to 1kHz)
Pulse rate setting range : 0.0000 to 2.0000
Output-2 : Pulse output (Same as output-1)
Communication function, (Refer to common specifications)

VJQ7 Analog/Pulse Transmitter

Input signal : Within 0 to 50mA DC with a span of 5mA or more
Within -10 to +10V DC with a span of 0.1V or more
Output-1 : Open collector or contactless AC switch
Output frequency : 0 to 2kHz (Contactless AC switch: 0 to 1kHz)
Pulse rate setting range : 0.0000 to 2.0000
Output-2 : Pulse output (Same as output-1)
Communication function, alarm output (Refer to common specifications)

VJQ8 Pulse/Analog Transmitter

Input signal : Contact pulse, voltage pulse, or current pulse
Input frequency : 0 to 100kHz

Refer to common specifications for the models without the description of output.

Common Specifications

Accuracy rating : $\pm 0.1\%$ of span

Output-1 specifications

Output signal : 4 to 20mA DC (Permissible load resistance: 750Ω or less)
1 to 5V DC (Permissible load resistance: 2kΩ or more)

Output-2 specifications

Output signal : 4 to 20mA DC (Allowable load resistance: 350Ω or less)
1 to 5V DC (Allowable load resistance: 2kΩ or more)

Communication function

Baud rate : 1200, 2400, 4800, or 9600 bps

Communication protocol : PC-link, PC-link with SUM, MODBUS ASCII, MODBUS RTU, Ladder communication

Alarm output (However, contact output for VJX7: Applicable only signal type and contact capacity.)

Signal type : 2 relay contact

Contact capacity : 30V DC, 1A

Output signal : N.O. contacts (Contacts ON when excitation), COM common

Alarm operating direction : High limit alarm or low limit alarm

Alarm setting range : 0 to 100% of input range

Alarm operating display : LED on front panel lights during excitation

The above product can be set with Handy Terminal or PC.

	Product Name	Model
New Product	Universal Temperature Converter	VJU7
New Product	Isolator	VJH7
New Product	Distributor	VJA7
New Product	Potentiometer Transmitter	VJS7
New Product	Universal Computing Unit	VJX7
New Product	Pulse Rate Converter	VJP8

	Product Name	Model
New Product	Analog/Pulse Transmitter	VJQ7
New Product	Pulse/Analog Transmitter	VJQ8
New Product	PC-based Parameters Setting Tool	VJ77
	Associated Product	Model
	Handy Terminal	JHT200

The above products come with a 3-year warranty.

YOKOGAWA
Yokogawa M&C Corporation

World Wide Web site at
http://www.yokogawa.co.jp/MCC/Welcome_e.htm

NOTICE

- Before using the product, read the instruction manual carefully to ensure proper and safe operation.

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