Compact, Plug-in Signal Conditioners







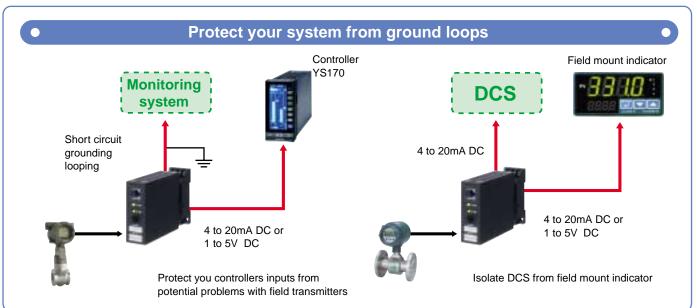
VJ for use with Yokogawa's High Performance Transmitters!



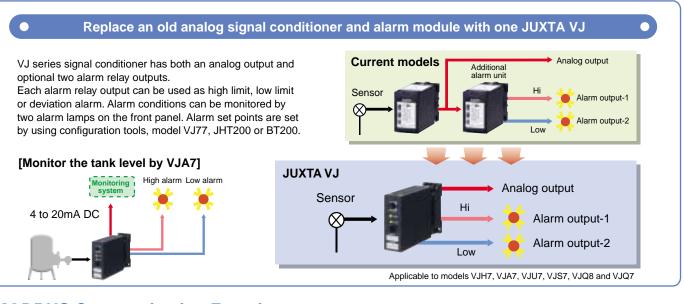
Everything you want in a signal conditioner Reliability, Quality and Stability.



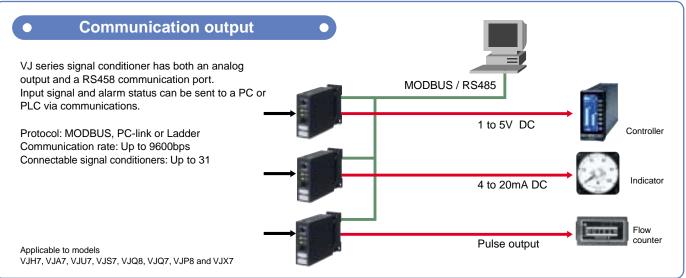
Two Isolated Analog Outputs



Built-in Alarm Outputs



MODBUS Communication Function





Isolators

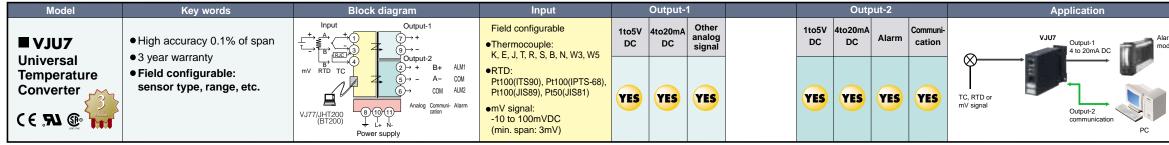
Model	Key words	Block diagram	Input		Output	-1			Outp	out-2		Application	Typical I/O and	related model &	suffix code (power	supply:100 to 240V AC/DC)
		Input Output-1		1to5V	4to20mA	Other	1	to5V	4to20mA	Alarm	Communi-	Controller	Input	Output-1	Output-2	Model & Suffix codes
■VJH7	 High accuracy 0.1% of span 	$\begin{array}{c} + - + - + - + - + - + - + - + - + - + $	Field configurable:	DC	DC	analog signal		DC	DC	Alarm	cation	VJH7 Output 1			N/A	VJH7-016-1AN0
Isolator	• 3 year warranty	R: 100 Q Output-2	0 to 50mA DC									-10 to +10V DC control output			4 to 20mA DC	VJH7-026-1AA0
Multifunction	• Field configurable	External resistor for current input \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc	(min. span: 5mA)												1 to 5V DC	VJH7-026-1A60
		COM ALM2 Analog Communi- Alarm	or	YES	YES	YES	6	YES	YES	YES	YES		1 to 5V DC	4 to 20mA DC	Communication	VJH7-026-1AP0
{ 3 }		VJ77/JHT200 (BT200) (BT200) Analog Communi- Alarm	-10 to +10V DC (min. span: 0.1V)									Output-2			Alarm output	VJH7-026-1AT0
((,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(B1200) (B1200)										DCS or other High/Low control system alarm output			-	-
		Power supply													-	-
		Input Output-1 + \rightarrow 1 (7) +										VJH1 Other control system	Input	Output-1	Output-2	Model & Suffix codes
■VJH1	●High accuracy 0.1% of span		4 to 20mA. 2 to 10mA. 1 to 5mA.									-10 to +10V DC Output-1 control output 1 to 5V DC			N/A	VJH1-016-6AN0
Isolator	·	R : 100 Ω External resistor Output-2	0 to 20mA, 0 to 16mA, 0 to 10mA,												4 to 20mA DC	VJH1-026-6AA0
		for current input 2→+	0 to 1mA, 10 to 50mA,	YES	YES	YES	6	YES	YES	_	_				1 to 5V DC	VJH1-026-6A60
		5→ -	0 to 10mV, 0 to 100mV, 0 to 1V,										1 to 5V DC	4 to 20mA DC		-
CE		8101	0 to 10V, 0 to 5V, -10 to +10V DC									Control system Output-2 1 to 5V DC			-	-
		↓ ↓ ↓ ↓ L+ N-	< specify when ordering >									Recorder DX200			-	-
		Power supply										57200	Input	Output-1	- Output-2	Model & Suffix codes
		$\begin{array}{c c} \text{Input} & \text{Output-1} \\ + & 1 & 7 \\ - & 3 & 9 \\ \hline & 9 & - \end{array}$										4 to 20mA DC Output-1 FA-M3	mput	Output-1	N/A	VJHF-016-6AN0
■ VJHF	•50 μ s signal conversion for	$-\overrightarrow{3} = 9 \rightarrow -$ R:1000	4 to 20mA, 2 to 10mA,1 to 5mA,									input 1 to 5V DC			4 to 20mA DC	VJHF-026-6AA0
Isolator	63% response	External resistor for current input	0 to 20mA, 0 to 16mA, 0 to10mA,												1 to 5V DC	VJHF-026-6A60
Super Speed	 High accuracy 0.1% of span 		0 to 1mA, 10 to 50mA,	YES	YES	YES		YES	YES	-	-		1 to 5V DC	4 to 20mA DC		-
Response			0 to 1V, 0 to 10V, 0 to 5V, 1 to 5V, -10 to +10V DC									Pressure transmitters	1.000 20	1 10 2011 7 20	_	
		81011										e.g. output-2 Engine development 1 to 5V DC MX100			_	_
		l ↓ L+ N- Power supply	< specify when ordering >												_	_
													Input	Output	The number of channels	Model & Suffix codes
	Lich courses 0.10/ of an an	Channel-1 Output-1 + \rightarrow (7) +										2-wire transmitter 1 st ch. input 1 st ch. output			1 - channel	VJC1-01N-AAN0
■VJC1	 High accuracy 0.1% of span 	$\begin{array}{c} + \longrightarrow (1) \\ - \longrightarrow (3) \end{array} \xrightarrow{} \begin{array}{c} - \swarrow (7) \rightarrow + \\ R \\ R \\ 9 \\ 9 \\ \end{array}$	4 to 20mA DC									4 to 20mA DC 1 to 5V DC		4 to 20mA DC	2 - channel	VJC1-02N-AAN0
Loop Powered	• Two channels in one VJ case		or									2 nd ch, input			1 - channel	VJC1-01N-A6N0
Isolator	(2nd channel output shall be the same as the 1st channel.)	Channel-2 + \rightarrow (4) - (2) - (2) - (2) +	10 to 50mA DC	YES	YES	-		-	-	-	-	4 to 20mA DC	4 to 20mA DC	1 to 5V DC	2 - channel	VJC1-02N-A6N0
	The same as the 1st challer.	$- \longrightarrow 6 \xrightarrow{R} 5 \rightarrow -$	< specify when ordering >									2 nd ch. output 1 to 5V DC			-	-
		R : 250Ω for voltage output										2 nd ch. output 1 to 5V DC Analog module			-	-
															-	-

Distributors

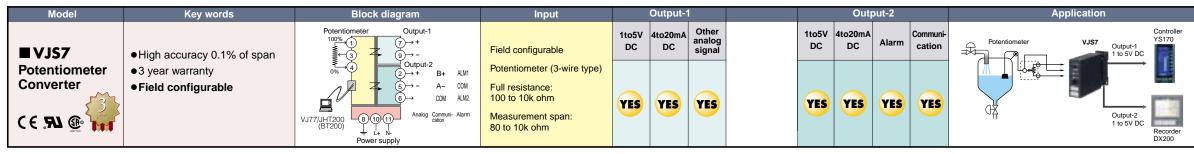
Model	Key words	Block diagram	Input		Output-	1			Out	put-2		Application	Typical I/O an	d related model 8	suffix code (powe	r supply:100 to 240V AC/DC)
		Transmitter Output-1		1to5V	4to20mA	Other		1to5V	4to20mA		Communi-		Input	Output-1	Output-2	Model & Suffix codes
■ VJA7	●High accuracy 0.1% of span	$\begin{array}{c} + & \hline & (1) \\ - & \hline & (2) \\ - & \hline & (3) \end{array} \xrightarrow{(7)} + \\ (9) \rightarrow - \end{array}$		DC	DC	analog signal		DC	DC	Alarm	cation	VJA7 Output-1 VS170			N/A	VJA7-016-AAN0
Distributor		Output-2	4 to 20mA DC from 2-wire transmitter				-					4 to 20mA DC 1 to 5V DC			4 to 20mA DC	VJA7-026-AAA0
Multifunction	•3 year warranty														1 to 5V DC	VJA7-026-AA60
Waithanetion	Field configurable	$6 \rightarrow COM$ ALM2	Transmitter power supply voltage: 24 to 28V DC	YES	YES	YES		YES	YES	YES	YES	Supply voltage: 24 to 28V DC	2-wire transmitter	4 to 20mA DC	Communication	VJA7-026-AAP0
53		VJ77/JHT200 (BT200) 8 10 11 Analog Communi- Alarm													Alarm output	VJA7-026-AAT0
((,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(B1200) U U U U U U U U U U U U U U U U U U										2-wire pH transmitter Output-2 model PH202G High/Low alarm output			-	-
0.00 (149		Power supply										alam oupu			-	-
		Transmitter Output-1 + (7) +										Controller	Input	Output-1	Output-2	Model & Suffix codes
■VJA1	●High accuracy 0.1% of span	$\begin{array}{c} + & & & \\ - & & & \\ - & & & \\ - & & & \\ - & & & \\ \end{array} \begin{array}{c} & + & \\ - & & \\ - & & \\ \end{array} \begin{array}{c} & & \\ - & \\ - & \\ \end{array} \begin{array}{c} & & \\ - & \\ - & \\ \end{array} \begin{array}{c} & & \\ - & \\ - & \\ \end{array} \begin{array}{c} & & \\ - & \\ - & \\ \end{array} \begin{array}{c} & & \\ - & \\ - & \\ \end{array} \begin{array}{c} & & \\ - & \\ - & \\ \end{array} \begin{array}{c} & & \\ - & \\ - & \\ \end{array} \begin{array}{c} & & \\ - & \\ - & \\ \end{array} \begin{array}{c} & & \\ - & \\ - & \\ \end{array} \begin{array}{c} & & \\ - & \\ - & \\ \end{array} \begin{array}{c} & & \\ - & \\ - & \\ \end{array} \begin{array}{c} & & \\ - & \\ - & \\ \end{array} \begin{array}{c} & & \\ - & \\ - & \\ \end{array} \begin{array}{c} & & \\ - & \\ - & \\ \end{array} \begin{array}{c} & & \\ - & & \\ \end{array} \begin{array}{c} & & \\ - & \\ \end{array} \begin{array}{c} & & \\ - & & \\ \end{array} \begin{array}{c} & & \\ - & & \\ \end{array} \begin{array}{c} & & \\ - & & \\ \end{array} \begin{array}{c} & & \\ - & & \\ \end{array} \begin{array}{c} & & \\ - & & \\ \end{array} \end{array}{\begin{array}{c} & & \\ - & & \\ \end{array} \begin{array}{c} & & \\ - & & \\ \end{array} \begin{array}{c} & & \\ - & & \\ \end{array} \end{array}$	4 to 20mA DC from									2-wire 4 to 20mA DC			N/A	VJA1-016-AAN0
Distributor		Output-2	2-wire transmitter									transmitter input VJA1 Output-1 1 to 5V DC			4 to 20mA DC	VJA1-026-AAA0
Distributor		$2 \rightarrow +$	Transmitter power supply voltage:	YES	YES	YES		YES	YES	_	_		2-wire		1 to 5V DC	VJA1-026-AA60
		5→ -	25 to 25.5V DC										transmitter	4 to 20mA DC	_	-
		8(1)(1)										Supply voltage: 25 to 25.5V DC Output-2 4 to 20mA DC			-	-
CE		↓ ↓ ↓ N-										4 to 20mA DC Safety barrier			-	-
		Power supply													- The number of	-
		Transmitter-1 Output-1										2-wire Indicator	Input	Output-1	channels	Model & Suffix codes
■ VJA4	●High accuracy 0.1% of span	$\begin{array}{c} + & - & 1 \\ - & & - & 3 \end{array} \xrightarrow{(7)} + \\ R \neq & 9 \rightarrow - \end{array}$	4 to 20mA DC from									transmitter 1st ch. input VJA4 1st ch. output		4 to 20mA DC	1 - channel	VJA4-016-AAN0
Distributor	•3 year warranty	Transmitter-2 Output-2	2-wire transmitter									4 to 20mA DC			2 - channel	VJA4-026-AAN0
Non-isolated	• Two channels in one VJ case	$\begin{array}{c} \begin{array}{c} + & - & - & - & - & - & - & - & - & - &$	Transmitter power supply voltage:	YES	YES	_		_			_	Supply voltage: 24 to 28V DC 2nd ch. input 2nd ch. output	2-wire transmitter	1 to 5V DC	1 - channel	VJA4-016-A6A0
	2nd channel output shall be	$-\underbrace{{\longleftarrow}}_{6} \underbrace{{\longleftarrow}}_{7} \underbrace{{\rightarrow}}_{7} \underbrace{}{\rightarrow} \underbrace{{\rightarrow}}_{7} \overset$	24 to 28V DC									4 to 20mA DC	transmitter	1 10 37 20	2 - channel	VJA4-026-A6N0
	the same as the 1st channel.	8 (10 (1) for voltage output							Spphy voltage: 24 to 28/ DC				-	-		
((,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	↓ I I L+ N-										Indicator			-	-
		Power supply													-	-



Temperature Converter



Potentiometer Converter



Pneumatic to Electric Signal Converter

Model	Key words	Block diagram	Input	C	Dutput-1	1		0)utput-2	2		Application		Typical I/O and	d related model &	suffix code (powe	er supply:100 to 240V AC/DC)
■ VJF1 Pneumatic to	●High accuracy 0.2% of span	Input Pneumatic input signal	Clean dry air 0.2 to 1.0 kgf/cm ² or	1to5V DC	4to20mA DC	Other analog signal	1to5\ DC	V 4to20 DC		arm Comr cat		20 to 100kPa pneumatic input signal		Input 0.2 to 1.0kgf/cm ² 20 to 100kPa	Output-1		Model & Suffix codes VJF1-016-1AN0 VJF1-016-3AN0
Converter		One-touch fitting for tubing ϕ 6 (0,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1,1) (1	20 to 100kPa	YES	YES	YES	-	-	· -	- -	Pneum transm MC43	smitter	DCS or other control system	-		- - - -	- - - -

Pulse Signal Converters

Model	Key words	Block diagram	Input	Outp	out-1			Outpu	it-2		Application	Typical I/O an	d related model &	suffix code (powe	r supply:100 to 240V AC/DC)
■VJQ8		Transmitter Output-1	Field configurable	1to5V 4to2 DC D	analo	1	1to5V 4to		Alarm	Communi- cation	2 or 3-wire VJQ8 Output-1 Controller	Input	Output-1	Output-2	Model & Suffix codes
Pulse to Analog converter	High accuracy 0.1% of span3 year warranty	$ \begin{array}{c} \downarrow \downarrow$	0 to 100kHz, 2-wire: dry contact pulse,		C sign					cation				4 to 20mA DC 1 to 5V DC	VJQ8-026-2AA0 VJQ8-026-2A60
Multi-function	 Field configurable: input type, pulse rate, etc. 	$ \begin{array}{c} \hline \\ \hline $	voltage pulse, current pulse 3-wire: voltage pulse									Pulse signal (24V DC)	4 to 20mA DC	Communication	VJQ8-026-2A60 VJQ8-026-2AP0
{3}	input type, puise rate, etc.	Analog Communi- Alarm	Supply voltage to	YES YI			YES	YES	YES	YES	Flow transmitter digital YEWFLO (Pulse output) 1 to 5V DC	(= ,		Alarm output	VJQ8-026-2AT0
(6.91 🛞 📊		VJ77/JHT200 (BT200) ÷ L+ N- Power supply	transmitter: 12V or 24VDC								(Pulse output) 1 to 5V DC DX200			-	_
		Input Output-1 + $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$										Input	Output-1	Output-2	Model & Suffix codes
■VJQ7	•High accuracy 0.1% of span	$- \xrightarrow{\mathbb{R}} 3 \xrightarrow{\mathbb{C}} 9 \rightarrow -$	Field configurable	0.001Hz to 2							4 to 20mA DC VJQ7 Output-1 input pulse signal			N/A	VJQ7-016-A1N0
Analog to Pulse	•3 year warranty	R : 1000 External resistor for current input 2→ + B+ ALM1	0 to 50mADC	open collect										Open collector	VJQ7-026-A110
converter	•Field configurable:	for current input $5 \rightarrow - A - COM$	(min. span: 5mA)	or			Same as Ou	itput-1	YES	YES				Contactless AC switch	VJQ7-026-A130
Multi-function	input and output range, etc.	G→ COM ALM2	or -10 to +10VDC	contactless a	AC switch			·			Flow totalizer model STLD	4 to 20mA DC	Open collector	Communication	VJQ7-026-A1P0
		VJ77/JHT200 (BT200) B 10 11 Pulse Communi- Alarm cation	(min. span: 0.1V)								Flow transmitter Output-2 ADMAG AXF High/Low			Alarm output	VJQ7-026-A1T0
(€, 51) ∰ ₩		$\begin{array}{c c} (B1200) & \downarrow & \downarrow_{N} \\ Power supply \end{array}$									(Analog output) alarm output			-	_
		Transmitter Output-1									Flow counter	Input	Output-1	Output-2	Model & Suffix codes
■ VJP8	• High appurpant 0, 19/ of appap		Field configurable	Pulse rate:							2 or 3-wire VJP8 Output-1 model SICD flow pulse input VJP8			N/A	VJP8-016-21N0
Pulse Rate	•High accuracy 0.1% of span	$ \downarrow \downarrow$	0 to 100kHz	0.0001 to 2. open collect										Open collector	VJP8-026-2110
converter	•3 year warranty		2-wire: dry contact pulse,	or	101		Same as Ou	itput-1	_	YES	PLC			Contactless AC switch	VJP8-026-2130
Multi-function	 Field configurable: input type, pulse rate, etc. 	$(5) \rightarrow -$ A- $(6) \rightarrow$ COM	voltage pulse, current pulse 3-wire: voltage pulse	contactless	AC switch						model FA-M3	Pulse signal (24V DC)	Open collector	Communication	VJP8-026-21P0
{ 3 }	input type, pulse rate, etc.	Pulse Communication	Supply voltage to								Flow transmitter	(240 DC)		-	-
((, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		VJ77/JHT200	transmitter: 12V or 24VDC								digital YEWFLO (Pulse output) Output-2 communication			-	-
UNITAL		Power supply												-	-

	Typical I/O and	I related model &	suffix code (powe	r supply:100 to 240V AC/DC)
	Input	Output-1	Output-2	Model & Suffix codes
rm setter del SIHK			N/A	VJU7-016-UAN0
			4 to 20mA DC	VJU7-026-UAA0
			1 to 5V DC	VJU7-026-UA60
	TC, RTD or mV	4 to 20mA DC	Communication	VJU7-026-UAP0
			Alarm output	VJU7-026-UAT0
			-	-
			-	-
		1		

	Typical I/O and related model & suffix code (power supply:100 to 240V AC/DC)									
	Input	Output-1	Output-2	Model & Suffix codes						
			N/A	VJS7-016-1AN0						
	Potentiometer 4		4 to 20mA DC	VJS7-026-1AA0						
		4 to 20mA DC	1 to 5V DC	VJS7-026-1A60						
		4 to 2011A DC	Communication	VJS7-026-1AP0						
			Alarm output	VJS7-026-1AT0						
			-	-						
			-	_						

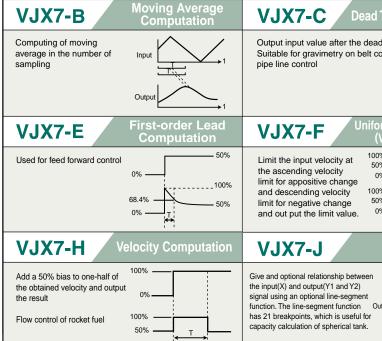
AC Current and Voltage Converters

Model	Key words	Block diagram	Input		Output-′	1		Out	put-2		Application	
■ VJG1	● PT signal conversion	Input Output $7 \rightarrow +$	0 to 110V AC or 0 to 150V AC,	1to5V DC	4to20mA DC	Other analog signal	1to5V DC	4to20mA DC		Communi- cation	Digital inc model U	idicator
PT converter RMS-computing	● Accuracy 0.5% of span	Power-line $B \oplus 11$ + L+ N-	(0 to 300V AC is available) < specify when ordering >	YES	YES	YES	_	-	_	-	VJG1 1 to 5V DC Voltage Voltage	
■ VJB1 CT converter RMS-computing	● CT signal conversion ● Accuracy 0.5% of span	Input $7 \rightarrow +$ $9 \rightarrow -$ Optional CT protector $8 \uparrow 0 \uparrow 1$ + N-	0 to 1A AC or 0 to 5A AC CT protector (option) < specify when ordering >	YES	YES	YES	_	_	_	_	PT 4 to 20mA DC	Indicator

Computing Units

Model	Key words	Block diagram	Input		Output-	1			Out	tput-2	Function	Ту	pical I/O and	related model &	suffix code (powe	r supply:100 to 240V AC/DC)
	• High accuracy (0.20/ of apop	Input + $+$ (1) Output-1 $(7) \rightarrow +$		1to5V DC	4to20mA DC	analog		1to5V DC		Contact Communi- outputs cation	Selects the higher or lower of input -1 and input- 2 Input	Hi signa	Input	Output-1	Output-2 N/A	Model & Suffix codes VJSS-H16-AAN0
High/Low	 High accuracy 0.2% of span Isolated single and dual output 	$\begin{array}{c} + & \begin{array}{c} + & \begin{array}{c} & \end{array} \\ & & \end{array} \\ & & \begin{array}{c} + & \begin{array}{c} + & \end{array} \\ & & \end{array} \\ & & \begin{array}{c} + & \end{array} \\ & & \end{array} \\ & & \begin{array}{c} + & \end{array} \\ & \begin{array}{c} + & \end{array} \end{array} \\ & \begin{array}{c} + & \end{array} \\ & \begin{array}{c} + & \end{array} \end{array} \\ & \begin{array}{c} + & \end{array} \\ & \begin{array}{c} + & \end{array} \\ & \begin{array}{c} + & \end{array} \end{array} \\ \\ \end{array} $ \\ \\ \end{array} \\ \\ \end{array} \\ \end{array} \\ \\	Two analog input signals 1 to 5V DC or 4 to 20mA DC			signal	-				automatically converts it	al selec	4 to 20mA DC	4 to 20mA DC	4 to 20mA DC	VJSS-H26-AAA0
Signal Selector	models	External resistor for current input $+ \rightarrow 4$ $2 \rightarrow +$									signals.	tor L			1 to 5V DC	VJSS-H26-AA60
		$\begin{array}{c} + & \downarrow \\ + & \downarrow \\ R \\ - & \downarrow \\ 6 \end{array} \qquad \begin{array}{c} 2 \\ 5 \\ 5 \\ \hline \end{array} \qquad \begin{array}{c} 2 \\ - \\ 5 \\ \hline \end{array} \qquad \begin{array}{c} + \\ - \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$		YES	YES	YES		YES	YES			.ow sigr	4 to 20mA	41 00 4 50	N/A 4 to 20mA DC	VJSS-L16-AAN0 VJSS-L26-AAA0
CE											Output	nal seler	DC	4 to 20mA DC	1 to 5V DC	VJSS-L26-AA60
												ctor			-	-
		Input Output-1									VJX7-A Free Program		Input	Output-1	Output-2	Model & Suffix codes
■VJX7	Program steps: 40 steps	$\begin{array}{c} + - + - + - + - + - + - + - + - + - + $	Field configurable												N/A	VJX7-A16-AAN0
Universal	 High accuracy 0.1% of span 	R : 100 Q Output-2	0 to 50mA DC								Meet individual applications by programming the various	Fund			4 to 20mA DC	VJX7-A26-AAA0
Computing Unit		External resistor at current input $2 \rightarrow + B + ALM$	(min. span: 5mA)	YES	YES	YES		YES	YES	YES YES	computing functions, 54 commands and 40 steps of capability.	ction	4 to 20mA		1 to 5V DC	VJX7-A26-AA60
	• 3 year warranty		or									Free	DC	4 to 20mA DC	Communication	VJX7-A26-AAP0
$\langle c \rangle = \langle 3 \rangle$	Field configurable	VJ77/JHT200 8 10 11 Analog Communi- Contact	-10 to +10V DC									e prog			Contact output	VJX7-A26-AAT0
		VJ77/JHT200 (BT200) UIT Attalog California Contact California Contact California Contact Contact California Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Con	(min. span: 0.1V)								Fixed computation models	gram			_	-

Common Features	
 Output-1 Other analog signals 	2 to 10mA DC, 1 to 5mA DC, 0 to 20mA DC, 0 to 16mA DC, 0 to 10mA DC, 0 to 1mA DC 0 to 10mV DC, 0 to 100mV DC, 0 to 1V DC, 0 to 10V DC, 0 to 5V DC, -10 to +10V DC
• Output-2 Alarm outputs	Output signal: N.O. relay contact, 2 points, COM common Contact capacity: 30V DC, 1A
Communication	Protocol: MODBUS ASCII, MODBUS RTU, PC-link with SUM or ladder Number of connectable instruments: up to 31 units Communication distance: up to 1200m Communication: 1200, 2400, 4800, 9600bps
Cables connection	M3 screw terminal (Both for signals and power supply)
Case body material	Modified polyphenylene oxide
Power supply	100 to 240V AC/DC (-15, +10%), 50/60Hz or 15 to 30V DC (±20%)
Withstanding voltage	2000V AC/min. (Between input, outputs, power supply, & ground mutually) 1000V AC/min. (Between output-1 and output-2) 1000V AC/min. (Between input and alarm outputs)
External dimensions	76(H)* 29.5(W)* 124.5(D) mm
Weight	Approx. 170g
• Environmental conditions	Operating temperature: 0 to 50 deg. C Operating humidity: 5 to 90% RH (no condensation)
• UL, CE, CSA markings	Applicable to the models with 15 to 30V DC power supply



	Typical I/O and	related model &	suffix code (powe	er supply:100 to 240V AC/DC)
	Input	Output-1	-	Model & Suffix codes
	0 to 110V AC	4 to 20mA DC	-	VJG1-016-1AN0
	0 to 150V AC	4 to 2011A DO	-	VJG1-016-2AN0
	-	-	-	-
	Input	Output-1	CT protector	Model & Suffix codes
or	0.4- 4.0.40	4 to 20m A DC	None provided	VJB1-016-AAN0
	0 to 1A AC	4 to 20mA DC	One unit provided	VJB1-016-AAN1
		4 to 00 A DO	None provided	VJB1-016-BAN0
	0 to 5A AC	4 to 20mA DC	One unit provided	VJB1-016-BAN1
	_	_	-	_

d Time Computation	VJX7-D First-order Lag Computation
ead time has elapsed. t conveyor	Provides a first-order lag computation on input (X) with a time constant (T) and outputs the result.
form-speed Response (Velocity Limiter)	VJX7-G High / Low Limiter
00% 50% 0% 0% T T/2	Serves as an ordinary converter as long as input is within the upper and lower limits. When the input exceeds the limit, the unit outputs that corresponds to the limit value
Linearizer	VJX7-K Ratio Setting
Output	Set the ratio by the following expression Y1=Y2=K1*(X+A1)+A2 Where Y1 : Output-1 signal% Y2 : Output-2 signal% X : Input signal% K1 : Ratio(no unit) A1 : A2: Bias %

Plug-in Type Limit Alarms

Highly reliable alarm action

M Series MVHK, MVTK and MVRK are high-performance Digital Limit Alarms. Model MVHK: DC Input Type (DC input receives DC current or DC voltage signal.) Model MVTK: Thermocouple Input Type Model MVRK: RTD Input Type

- Either 2 points of alarms (relay transfer contact [1a1b], 2 points) or 4 points of alarms (relay NO contact, 4 points) can be selected.
- An alarm status in the event of an alarm can be recognized.
- Using the economical mode enables the low power consumption operation. • Input range and each parameter setting can be changed by the operation keys on the front panel.

VJ Series VJHK, VJAK, VJTK and VJRK are simple-type Limit Alarms. Model VJHK: DC Input Type (DC input receives DC current or DC voltage signal.) Model VJAK: DC Current Input from 2-wire Transmitter Type Model VJTK: Thermocouple Input Type Model VJRK: RTD Input Type

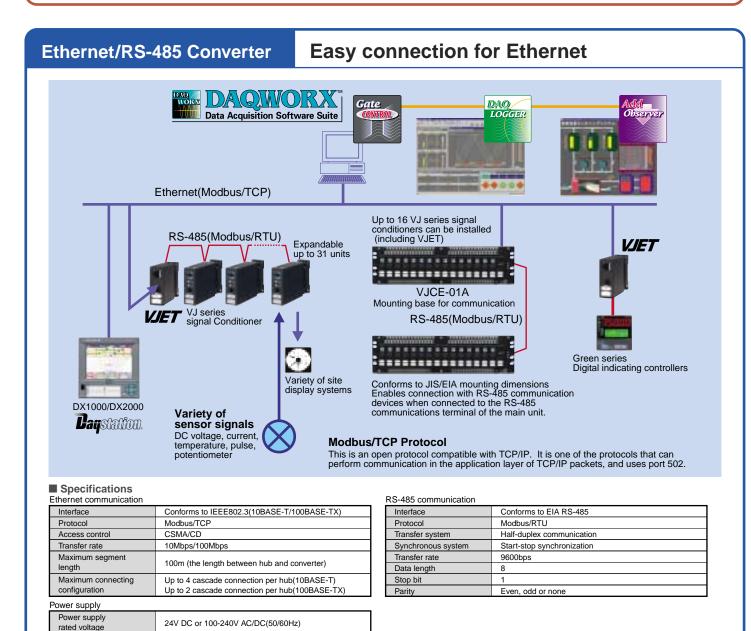
F -



MVHK / MVTK / MVRK

VJHK / VJAK / VJTK / VJRK

• Each parameter setting can be changed using a PC (VJ77 PC-based Parameters Setting Tool) or the Handy Terminal (JHT200).



Accessories

PC-based Parameters Setting Tool

Model: VJ77

The model VJ77 parameter setting tool is used in combination with VJ series signal conditioner for setting, changing, displaying and printing out parameters such as tag number, input range through simultaneous communication. It also monitors I/O values and selfcheck results, sets alarm setpoints, and allows zero adjustments. The VJ77 is also used for the programming for the model VJX7 universal computing unit. The VJ77 is applicable to the VJ series signal conditioners, models VJH7, VJA7, VJU7, VJQ8, VJQ7, VJP8, VJX7, and the other JUXTAs such as F, W, J series, etc.

Function

Parameter setting	This function enable settings and modification of various parameters of VJ, including input type, input range, output range, and burnout.
Program setting	This function enables programming of universal computing unit (Model VJX7).
Reading & writing data	This function allows the the parameters and programs on the microcomputer-based VJ to be read and then written to the VJ.
File management	This function allows the the programs made with this tool, and the parameters and programs read from the VJ to be saved on a PC's hard disk or other media.
Data printing	This function enables the printing out of programs made with this tool and parameters by a printer.
Monitoring	This function enables the monitoring of inputs, outputs and the results of self-diagnoisis the VJ.
Adjustment	This function enables adjustment of the zero point and span of VJ's input/outputs.

Handy Terminal Model: JHT200 Functional specifica **Basic functions** The model JHT200 handy terminal has the • Set up, change, and disp same functions as the VJ77 has, except for of parameters the data storage function. Zero-point adjustment The JHT200 is convenient for setting and checking the Additional functions parameters in the Batch upload/download instrumentation panel. • Set point protection: The JHT200 is applicable to Security code entry is req the same VJ series signal to change set points. conditioners as the VJ77.

Surge Arresters

AR series

The high-performance AR surge arrester absorbs the potential of an induced lightning surge caused by a lightning discharge. The plug-in arrester consists of a separable main unit and terminal block.

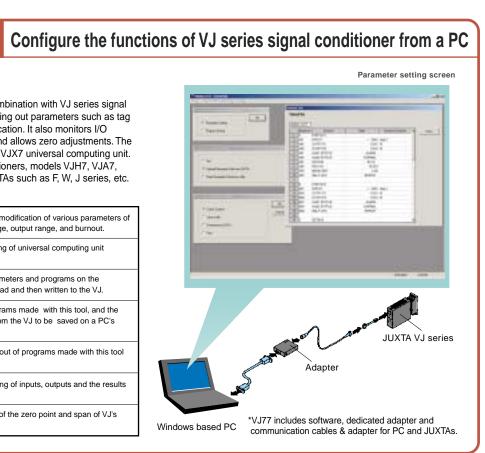
- Absorbs large surge voltages immediately. Simple circuit configuration and excellent
- adaptability to a distributed control system
- Plug-in connection of the main unit with the terminal block, eliminating concerns
- about an open-circuit state even if the main unit is removed. • CE mark is available for model AR-SA,
- AR-RT, AR-TC, AR-LP, AR-HP 2nd AR-SP.

Ethernet is a registered trademark of Xerox Corporation.

Power consumption

1 8W at 24V DC: 1 5W at 110V DC

2.6VA at 100V AC, 4.0VA at 200V AC



JUXTA series

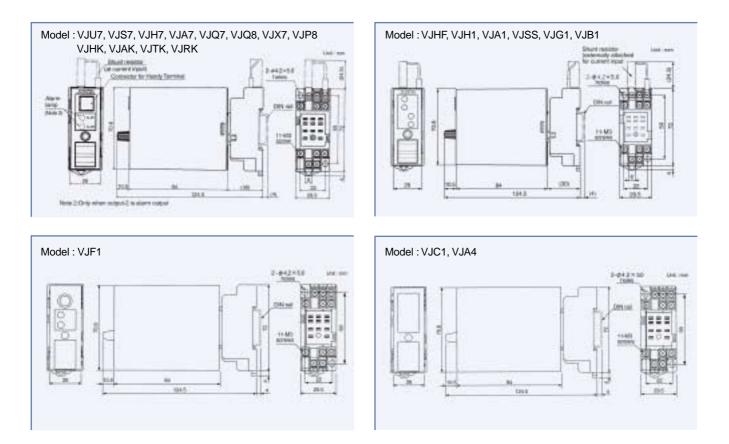
Same configuration functions as the VJ77 in a handheld form

lay of data	 Battery alarm: An alarm massage appearing on the LCD announces low battery voltages. Automatic power-off The terminal is switched off automatically if no key access is made for approximately 5 minutes. 	 Printout Information All parameter lists Parameter list within each menu item Setup change data list Uploaded data list Display images
quired	 LCD contrast adjustment Printing(JHT200-P00) 	 Self check list

Protect your process from induced lightning surges Connection AR-SP 4-20mA DC

Compact, Plug-in Signal Conditioners

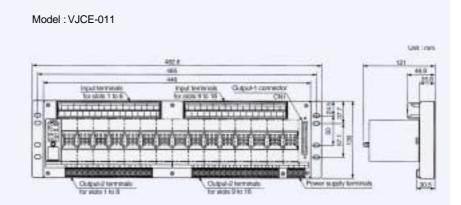
External Dimensions



VJ Mounting Base

Model VJCE mounting base can mount with up to 16 units of VJ series signal conditioners. Easy to connect to an input or output card of Yokogawa's DCS.

Screw terminals or connectors can be selectable for inputs and outputs signal connection.



YOKOGAWA

YOKOGAWA CORPORATION OF AMERICA

2 Dart Road, Newnan, Georgia 30265, U.S.A. Phone: 800-447-9656, Fax: (1)-770-251-6427

YOKOGAWA EUROPE B.V.

Databankweg 20, 3821 AL Amersfoort, THE NETHERLANDS Phone: (31)-33-4641806, Fax: (31)-33-4641807

YOKOGAWA ENGINEERING ASIA PTE. LTD.

5 Bedok South Road, Singapore 469270 Phone: (65)-62419933, Fax: (65)-62412606

YOKOGAWA ELECTRIC CORPORATION

Network Solutions Business Division 2-9-32 Nakacho, Musashino-shi, Tokyo, 180-8750 Japan Phone: (81)-422-52-7179, Fax: (81)-422-52-6619 E-mail: ns@cs.jp.yokogawa.com

Repr	esented by :	
i i		
i i		
		RM-16