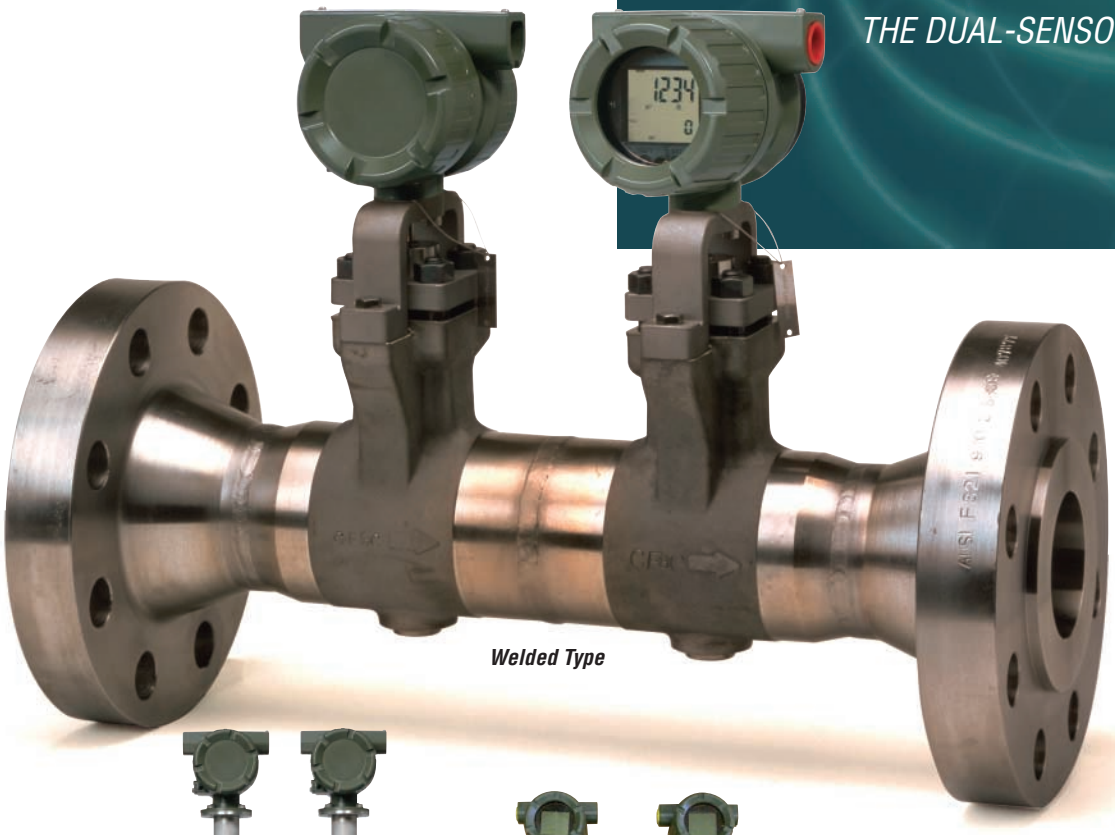
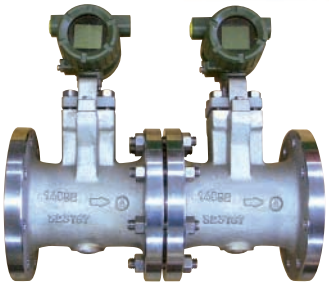
digital YEWFLO

THE DUAL-SENSOR VORTEX FLOWMETER



Welded Type

High Process Temperature Version



Bolted Type

Dual-Sensor (Custom-made)

Construction	Bolted type and Welded type *Flange type only: ANSI CLASS150 to 1500
Size	15 to 300mm
Multivariable type	25 to 200mm
High Process Temperature version	25 to 200mm
Cryogenic version	15 to 100mm
Reduced Bore type	25mm to 200mm (one size down) 40mm to 200mm (two size down)
Temperature Range	-196 °C to +450 °C

Note: Other mechanical and electrical specifications of the dual-sensor type pursue the general specification.

Emphasize the safety of plants

For customers' stringent safety policy.

Two converters make various output combination

Indicator (with/without), BRAIN Communication, HART Communication, Fieldbus Communication

Bulletin 01F06A00-06E

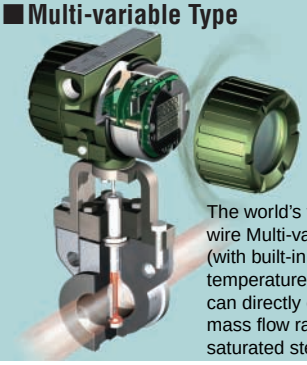
digital YEWFLO SERIES

■Standard Type

Fieldbus communication compatible

Yokogawa's proprietary filter (SSP) for digital signal processing analyzes vortex signals and automatically selects the optimum settings for the best possible measurement.

■Multi-variable Type



The world's first two-wire Multi-variable Type (with built-in temperature sensor) can directly output the mass flow rate of saturated steam.

■High Process Temperature Version Cryogenic Version

Measurable temperature range:
Maximum 450˚C,
Minimum -196˚C

Specifications

	Standard	Reduced Bore	Multi-Variable
Model & Suffix Code	Model DY Vortex Flowmeter (Integral type, Remote type) Model DYA Vortex Flow Converter	Suffix Code: /R1, /R2	Suffix Code: /MV
Fluid to be measured	Liquid, Gas, Steam (Avoid multiphase flow and sticky fluids.)		
Nominal size	15 mm to 300 mm (400 mm: special)	R1: 25 mm to 200 mm, R2: 40 mm to 200 mm	25 mm to 200 mm
Accuracy	Liquid: ±1.0% of reading (20000≦Re≦Dx10^3) Liquid: ±0.75% of reading (Dx10^3≦Re)	Liquid: ±1.0% of reading (20000≦Re)	Liquid: ±1.0% of reading (20000≦Re≦Dx10^3) Liquid: ±0.75% of reading (Dx10^3≦Re)
	Gas, Steam: ±1.0% of reading (Flow velocity less than 35 m/s) Gas, Steam: ±1.5% of reading (Flow velocity 35 m/s - 80 m/s)		
Output signal	Dual Output (both analog and transistor contact output can be obtained simultaneously.) Analog Output: 4-20 mA DC, 2-wire system Transistor Contact Output: Open collector, 3-wire system Pulse, Alarm, Status output are selectable. Contact rating: 30 V DC, 120 mA DC Low level: 0 to 2V DC		Indication: Upper: FLOWRATE(%), FLOWRATE, *TEMPERATURE(%) Lower: BLANK, TOTAL, *TEMPERATURE *Options available for Multi-variable Type only
Process temperature range	-29˚C to 260˚C (general) -196˚C to 100˚C (option: Cryogenic version) -29˚C to 450˚C (option: High Process Temperature version)	←Available ←Not available ←Available	←Available ←Not available ←Not available
Process pressure limit	-0.1MPa(-1kg/cm^2) to flange rating.		
Ambient temperature	-29˚C to 80˚C (Integral type with Indicator) -29˚C to 85˚C (Remote type detector) -30˚C to 80˚C (Remote type converter with Indicator)		
Ambient humidity	5 to 100%RH (Non condensing)		
Mounting	Integral type and Remote type detector: Flange mounting or wafer mounting Remote type converter: 2 inch pipe mounting JIS10/20/40, ANSI150/300/600/900, JPI150/300/600, DIN PN10/16/25/40	Flange mounting only JIS10/20K, ANSI 150/300, JPI150/300	Integral type and Remote type detector: Flange mounting or wafer mounting Remote type converter: 2 inch pipe mounting JIS10/20/40, ANSI150/300/600/900, JPI150/300/600, DIN PN10/16/25/40
Electrical connection	JIS G1/2 Female, ANSI 1/2NPT Female, ISO M20×1.5 Female		
Explosion protected type	TIIS F.P., FM E.P./I.S., CENELEC ATEX (KEMA) E.P./I.S./type n, CSA E.P./I.S., SAA E.P./I.S.		
Material	Body: SCS14A casting stainless steel (equivalent to SUS316, CF8M) Shedder bar: Duplex stainless steal (option: anti-corrosive version) Gasket: SUS316 stainless steel with polytetrafluoroethylene (Teflon) coating Converter housing and case cover: Aluminum alloy		

A Yokogawa Commitment to Industry

vigilance® quality innovation foresight

What does Yokogawa **vigilance** mean to the future of your business? ***Quality.*** Through products that are built from the ground up and tested to the last hour, you're ensured continuous operation and more uptime. ***Innovation.*** Your business will benefit from new insights and capabilities, bringing true predictability to your process. ***Foresight.*** As the market changes, you'll have solutions that give you the continuity and flexibility to plan ahead and grow. Our partners know the difference. With Yokogawa, you can count on a lifetime of plant efficiency, from instrumentation to operation support. Let us be vigilant about your business.

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Represented by:

Printed in Japan, 711(KP) [Ed : 01/b]

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