



## FD-XA1

Controller DIN rail type, main unit



## SPECIFICATIONS

Model	FD-XA1	
Type	DIN rail type, main unit	
Display method	Output indicator, 4-digit 7 segment display, OLED, Stability level display	
Display refresh frequency	Instantaneous flow: approx. 5 times/second, Discharge amount/Accumulated flow approx. 30 times/second	
Response time	50 ms/100 ms/500 ms/1 s/2.5 s/5 s/10 s/30 s/60 s (selectable, default: 500 ms)	
Integration data storage interval	Written to the memory every 10 seconds	
Memory back up	EEPROM (data storage period: more than 10 years, number of data rewritable times: 1 million times or more) <sup>*1</sup>	
Detection mode	ch.1	Instantaneous flow rate mode/Area mode/Pulse output (+) mode/Integrated flow mode/Shot mode (selectable)
	ch.2	Instantaneous flow rate mode/Area mode/Pulse output (-) mode/Shot mode/Error output mode/Bubble alert mode/Error + bubble alert mode (selectable)
Input/output	Output	NPN/PNP setting switch Open collector output: 30 V or lower, main unit: 50 mA or lower/ch. <sup>*2</sup> /expansion unit: 20 mA or lower/ch., residual voltage: 2 V or lower
	Analogue output	4-20 mA/0-20 mA (selectable) load resistance: 500 ohms or lower
	External input	Flow rate zero input/shot sampling input/integrated flow reset input/zero shift input (selectable) Short circuit current: NPN 1 mA or lower/PNP 2 mA or lower, input time: 20 ms or longer
Network support	IO-Link <sup>*3</sup>	
Protection circuit	Power supply reverse connection protection, power surge protection, output short circuit protection, output surge protection	
Addition of expansion units	Up to 7 <sup>*4</sup> per main unit	
Power supply	Power voltage	20 to 30 VDC including 10 % ripple (P-P) , Class 2
	Current consumption	195 mA or lower (including the sensor head, excluding the load current)
Environmental resistance	Operating ambient temperature	-10 to +50 °C (No freezing)
	Operating ambient humidity	35 % to 85 %RH (No condensation)
	Vibration resistance	10 to 55 Hz, double amplitude 1.5 mm, 2 hours each for X,Y,Z direction
	Shock resistance	100 m/s <sup>2</sup> (approx. 10 G) 16 ms pulse, 1000 times each for X,Y,Z direction
Material	Main body case/front sheet: PC, Key top: POM, Cable: PVC	
Weight	Approx. 210 g	
<p><sup>*1</sup> Internal data for full time recording can be read by USB (Ver.2.0) communication.</p> <p><sup>*2</sup> 20 mA or lower/ch when adding expansion units.</p> <p><sup>*3</sup> IO-Link: Specification v1.1/COM2 (38.4 kbps) is supported. If the end of the cable needs to be an M12 connector when supporting IO-Link communication, connect an M12 conversion connector (OP-88296) to the cable.</p> <p><sup>*4</sup> Consult the manual for the number of serially-connectable devices to the N-bus.</p>		

Dimensions

\* Download CAD file or product manual for larger image/text and more detail.

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