



FD-MZ10ATKP
Main Unit, Portrait, 10 L/min, PNP



*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

Model		FD-MZ10ATKP*1
Type		Vertical
Shape		Built-in amplifier
Rated flow range		0.14 - 2.60 G/min (0.50 - 10 L/min)*1
Possible display range		0.14 - 6.35 G/min (0.50 - 30 L/min)*2
Possible ranges to set		0 - 6.35 G/min (0 - 30 L/min)
Connection port		NPT3/8 (10 A)
Detectable fluids		Water or non-corrosive liquid
Conductivity of detection fluids		5 µS/cm or higher
Detection fluid temperature		0 to +85°C 32 to 185 °F (No freezing)
Pressure loss		Max. 1.45 PSI (0.01 MPa)
Display method		Dual row display with 4-digit, 7 segment LED, bar display (2 colors), output indicators, flow indicator
Display resolution		0.01/0.1 (G/min, L/min) selectable
Repeatability		0.5 s : ±5% of F.S., 1 s : ±3.5% of F.S., 2.5 s : ±2.5% of F.S., 5 s : ±1.6% of F.S., 10 s : ±1% of F.S., 30 s : ±0.8% of F.S., 60 s : ±0.6% of F.S.*3
Hysteresis		Variable
Response time (chatter prevention feature)		0.5 s/1 s/2.5 s/5 s/10 s/30 s/60 s variable
Accumulated flow unit		0.01/0.1/1/10/100 (G, L) selectable
Integration data storage cycle		Save to memory every 10 seconds
Memory backup		EEPROM (Data storage length : 10 years or longer, Data read/write frequency : 1 million times or more)
Control output/Accumulation pulse output/ Error alarm output		PNP open collector, max. 100 mA/ch*4 30 V or less, residual voltage 1 V or less, 3 outputs (N.O./N.C. switchable)
Analog output		4-20 mA, max. load resistance 260 Ω Analog output range can be set to any value
Integration reset/bank switch input/flow zero function input		Input time : 20 ms or greater,Select either the accumulation output or the accumulation pulse by setting the mode
Minimum flow volume		0.14 G/min (0.50 L/min)*5
Power consumption (Current consumption)		Normal : 1700 mW (70 mA), Power save : 1000 mW (40 mA)
Rating	Power voltage	24 VDC, Ripple (P-P) 10 % or less, Class 2
Environmental resistance	Enclosure rating	IP65
	Pressure resistance	290 PSI (2.0 MPa)
	Applied pressure range	Max. 145 PSI (1.0 MPa)
	Ambient temperature	0 to +50 °C 32 to 122 °F (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm 0.06", 2 hours in each of the X, Y, and Z directions

Material	Liquid end materials	Bore : SCS13, Measurement pipe : PPS, O ring : fluoro-rubber (FKM)
	Other materials	Plastic case areas : PPS, Metal case areas : SUS430, Cable : PVC
Accessory		Instruction Manual, Connector cable (2.7 m 106.3")
Weight		Approx. 865 g

*1 The rated flow range indicates recommended operating range.

*2 Can be used within the display range as well as within the rated flow range.

*3 The repeatability for FD-MZ10ATK (P)/YK (P) in the range of 5.20 to 7.50 G/min (20 to 30 L/min) is the double of the value listed in the table. The repeatability is the error of the detection point when fluids flow repeatedly under the same conditions.

*4 Maximum 20 mA for alarm output.

*5 Durchfluss unterhalb des Mindest-Durchflusses wird als 0 l/min angezeigt.