



## FD-MZ100ATKP

Main Unit, Portrait, 100 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-MZ100ATKP*1	
Type	Vertical	
Shape	Built-in amplifier	
Rated flow range	1.4 - 26.0 G/min (5.0 - 100 L/min)*1	
Possible display range	1.4 - 52.8 G/min (5.0 - 200 L/min)*2	
Possible ranges to set	0 - 52.8 G/min (0 - 200 L/min)	
Connection port	NPT1 (25 A)	
Detectable fluids	Water or non-corrosive liquid	
Conductivity of detection fluids	5 $\mu$ S/cm or higher	
Detection fluid temperature	0 to +85°C <b>32 to 185 °F</b> (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	0.1/1 (G/min, L/min) selectable	
Repeatability	0.5 s : $\pm$ 5% of F.S., 1 s : $\pm$ 3.5% of F.S., 2.5 s : $\pm$ 2.5% of F.S., 5 s : $\pm$ 1.6% of F.S., 10 s : $\pm$ 1% of F.S., 30 s : $\pm$ 0.8% of F.S., 60 s : $\pm$ 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	0.1/1/10/100/1000 (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 $\Omega$ 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	1.4 G/min (5 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 <b>32 to 122 °F</b> (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm <b>0.06"</b> , 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 <a href="#">106.3"</a> )
Weight		Approx. 1,340 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 is effective within the display range. Convert the F.S. (full scale) listed in the table according to the rated flow range.

\*4 Maximum 20 mA for alarm output.

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