

Ultrasonic Flow Meter for Liquid

MODEL FML-500



Applicable fluids **Liquid** Water, pure water

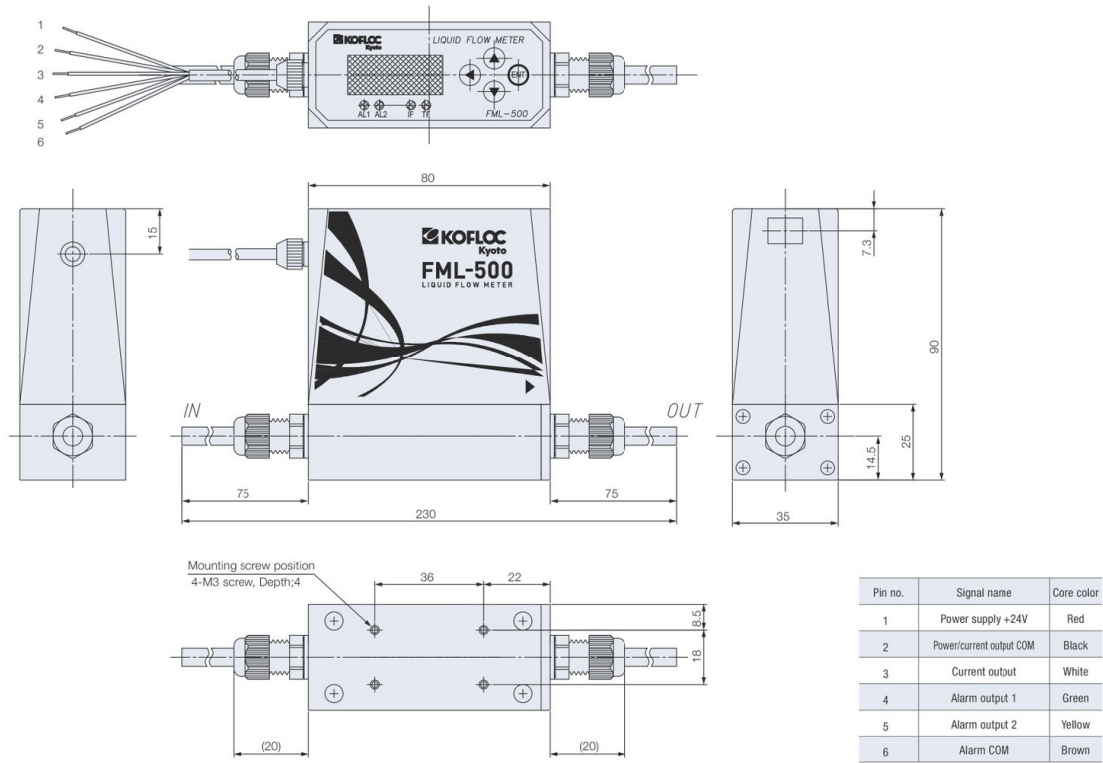
Max. flow rate **Liquid** 5L/min

Accuracy $\pm 30\text{mL/min}$ to $\pm 1.5\%\text{F.S.}$

- New PFA material for wetted parts
- Straight structure free from obstacles in the tube



Dimensions



Standard Specifications

MODEL	FML-500
Fluid	Water, pure water (no air bubbles) * For other liquids, please contact us.
Fluid sound velocity	1300 to 1600m/s
Fluid temperature range	15 to 50°C
Measurement range	0 to 5L/min
Accuracy	See Table 1.
Materials of parts in contact with liquid	New PFA
Proof pressure	0.5MPa (at 23°C)
Process connection	6mm tube end
Exclusive cable length	3m
Cable sheath	PVC
Structure	Equivalent to IP64
Allowable ambient temperature	5°C to 50°C (no dew condensation)
Allowable ambient humidity	10%RH to 85%RH (no dew condensation)
Mounting direction	Vertical, horizontal, oblique
Weight	200g (main body)

Table 1. Accuracy (Water, 23°C)

Measurement range	0 to 5L/min		
Flow rate range	0-0.20L/min to 0-5.00L/min		
Accuracy	Flow velocity	Less than 1m/s	±30mL/min (Less than 0.8L/min)
		1 to 2m/s	±2.5%F.S. (0.8 to 1.5L/min)
		2 to 3m/s	±2.0%F.S. (1.6 to 2.2L/min)
		3 to 6.6m/s	±1.5%F.S. (2.3 to 5L/min)

Electrical specifications

Measuring method		Ultrasonic propagation time difference calculation method
Output	1) Flow rate output	4 to 20mA (load resistance: 500Ω or less)
	2) Flow rate alarm output	2 points open collector output Load rating: 30VDC, 20mA, Operation: Comparison method
Display		4-digit 7-segment LED
Display data		Instantaneous flow rate, integrated flow rate
Alarm output monitor		2-point LED display (instantaneous flow rate alarm, integrated flow rate alarm)
Parameter setting		With 4 key switches on the panel
Power supply		24VDC±5%
Current consumption		150mA or less

Ordering

