

Inexpensive Microflow Coriolis Flowmeters

# CoriMateII

**Easy to use...Exceeding your expectations of Coriolis flowmeters!**

[Mass flow measurement]

[Measurement of multiple kinds of liquid at laboratories or research facilities]

[Medicinal solution, solvent process]

[Slurry liquid, mixture process]

[Paint, spray, additive applications]



We add value to the flow



OVAL Corporation

## ■ GENERAL SPECIFICATIONS

Item		Description		
Model		CR002	CR003	CR004
Materials	Wetted parts	SUS316L and SCS16A (※1)		
	Base	ADC12	ADC12	SUS304
	Housing and cover	ADC12		
	Display shield	Polycarbonate		
Process connection		Rc 1/8		
Acceptable fluid		Liquid (Density range: 0.3 to 2.0 g/mL)		
Operating temperature range		-10 to +60°C (Free of dew condensation)		
Max. operating pressure		2MPa		
Flow directions		Forward flow only		
Power supply		20 to 30VDC		
Power consumption		Max. 10W		
Furnished cable		AWG24×7 conductor, φ6.8×3m		
Dustproof, waterproof construction		IP66		
Installation		<ul style="list-style-type: none"> <li>• Horizontal installation (clamp not required)</li> <li>• Vertical installation (Bolthole provided)</li> </ul>		
Display		Backlit dot matrix: 8 digits		
Variables displayed		Instant mass flow, mass flow total, temperature		
Weight		Approx. 3kg	Approx. 3kg	Approx. 6.5kg
Communication interface		Bell 202 (using the HART protocol)		
Pulse output (※2)		Mass flow total open collector output (30V, 50mADC max.) FS: 0.1 to 10000Hz selectable •CR002:0.01g/P at 125Hz •CR003:0.01g/P at 500Hz •CR004:0.1g/P at 450Hz		
Analog output (※2)		4 to 20mADC Max. load 600Ω Instant mass flowrate Damping: 1 sec. (std.) •CR002:0 to 75g/min •CR003:0 to 300g/min •CR004:0 to 2700g/min		

(※1): Corrosion resistance of nickel brazing used in wetted parts is equivalent to SUS314.

(※2): The pulse output at the time of the shipment and analog output are standard setting. (Setting change possible)

Item		Description		
Model		CR002	CR003	CR004
Flow rate (Liquid)	Max. Flow rate g/min	75	300	2700
	Min. Analog range g/min	5	20	180
	Cutoff g/min (※1)	1.5	6	54
	Factory calibration accuracy	±0.1% of F.S.F. (Below 33% of flow rate) ±0.3% RD. (33% to 100% of flow rate)		
	Repeatability	±0.07% of F.S.F. (Below 33% of flow rate) ±0.2% RD. (33% to 100% of flow rate)		
Analog accuracy		Accuracy ±0.1% of full scale		

(※1) : The flow rate (output signal and indication level) becomes zero at cutoff level or lower. (Setting change by the customer is available.)

Item	Product Code													Description		
	①	②	③	④	⑤	⑥	—	⑦	⑧	—	⑨	⑩	⑪		⑫	⑬
Model	C	R														CoriMate
Nominal size		0	0	2												0.7mm, Flow range (g/min): 2.5 to 75, Rc 1/8
		0	0	3												1.5mm, Flow range (g/min): 10 to 300, Rc 1/8
		0	0	4												3mm, Flow range (g/min): 90 to 2700, Rc 1/8
Structural category		D	—													CoriMate II
Material							S	S	—							SUS316L
Process connection										2						Screw connection
Connection rule											0					Always "0"
Pressure category												0				Always "0"
Transmitter construction													N			Non-explosionproof, integral type transmitter
Version code														B		