



# Vortex Flow Monitor Eggs DELTA II

**Presenting the all-new Egg!**

The Eggs DELTA,  
well-received in monitoring cleaning process,  
coolant process, and factory air usage, has evolved.



- Easy-to-view display with orange background.
- Intuitive instantaneous flow indication with an analog display.
- Large unit display.
- Compact design with reduced height.
- Capable of fixed conversion to Normal/Standard conditions by setting temperature and pressure.



**GENERAL SPECIFICATIONS**

Item		Description			
Nominal Diameter		4mm	8mm	15mm	25mm
Flow Range (L/min)	Water	0.4 to 4	1.1 to 15	2.8 to 45	8.3 to 133
	Air	7.2 to 17	18 to 90	55 to 283	167 to 850
Connection		R male (resin), NPT male (resin), Rc female (metal)			
Construction		Indoor (non-explosionproof)			
Accuracy		Liquid: ±2% of full scale Gas: ±3% of full scale			
Maximum Operating Pressure		0.98MPa			
Fluid Temperature		-10 to +80°C			
Ambient Temperature		-10 to +60°C			
Major Parts Material		Body, sensor: PPS resin (polyphenylene sulfide) Transmitter case: Polycarbonate			
LCD Display		<ul style="list-style-type: none"> <li>Flowrate: 7-segment, 8 digits</li> <li>Unit: 16-segment, 3 digits</li> <li>Battery indicator</li> <li>Flow indicator (10-segment)</li> <li>Information indicator</li> <li>Background color: Orange</li> </ul> <ul style="list-style-type: none"> <li>① Accumulated total flow: 8 digits</li> <li>② Hourly instantaneous flowrate [b1]: 5 digits</li> <li>③ Per-minute instantaneous flowrate [b2]: 5 digits</li> <li>④ Resettable total flow [C]: 7 digits</li> <li>⑤ Measured fluid pressure setting</li> <li>⑥ Measured fluid temperature setting</li> </ul> <ul style="list-style-type: none"> <li>Every time MODE button is pressed, the LCD displays items ① to ④ in order.</li> <li>For [Temperature/Pressure compensation] model, items ⑤ and ⑥ will be displayed in addition to ① to ④.</li> </ul>			
Power Source	Battery Powered	Battery unit (dedicated lithium battery) Battery life: Approximately 6 years (at room temperature)			
	Externally Powered	Power source: 12 to 45VDC			
External Output	Battery Powered	Local display only	No output		
	Externally Powered (※1)	Analog output	4-20mA at 0-F.S. (Analog adjustment is available by using front buttons)		
		Alarm output	Open drain output (open collector equivalent) Allowable current: 20mA, Maximum applied voltage: 30V · Alarm output status is displayed on LCD. · Status (switching ON/OFF) and set values of high/low alarm output are configurable by using front buttons.		
		Pulse output	Open drain output (open collector equivalent) Allowable current: 20mA, Maximum applied voltage: 30V Pulse width (Factored pulse): 30ms		
Installation location	① Free from rain and water ② Minimal temperature variation ③ No exposure to direct sunlight (equivalent to IP53)				

※1: Simultaneous output of analog and another (alarm or pulse) output is available.

**PRODUCT CODE EXPLANATION**

ITEM	PRODUCT CODE										DESCRIPTION	
	①	②	③	④	⑤	-	⑥	⑦	⑧	⑨		⑩
Model	F	L	M									Eggs DELTA II
Fluid Category		2										Liquid
		3										Gas
Nominal Diameter		S										4mm
		0										8mm
		1										15mm
		2										25mm
Display										1		LCD display provided
Output										0		No output (battery-powered)
										1		Factored pulse output
										2		Analog output
										4		High/low alarm output
										5		Factored pulse output + high/low alarm output
									7		Analog output + factored pulse output + high/low alarm output	
Process Connection										P		R male thread Material: PPS
										N		NPT male thread Material: PPS
										S		Rc female thread Material: SCS14A
Version										D		Always "D"
Characteristic Code										0		None
										N		Normal conversion
										S		Standard conversion
										Z		Other temperature/pressure compensation

**OUTSIDE DIMENSIONS**

● R/NPT thread Unit: mm

Nominal diameter (mm)	ΦD	Thread nominal diameter	L	W	H1	H2
4	8.5	R3/8	80	32	29	86.2
8	13	R1/2	80	32	29	86.2
15	14	R3/4	85	32	29	86.2
25	24.5	R1-1/4	120	46	46	103.2

● Metal connection

Nominal diameter (mm)	ΦD	Thread nominal diameter	L	W	H1	H2
4	8.5	Rc1/4	91	50	29	86.2
8	10.7	Rc1/4	91	50	29	86.2
15	14	Rc1/2	91	50	29	86.2
25	24.5	Rc1	126	46	46	103.2

The specification as of February, 2022 is stated in this catalog. Specifications and design are subject to change without notice.



OVAL Corporation

