



# 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
	Air	7.2 to 17	18 to 90	55 to 283
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
				0							No output (battery-powered)
Output				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**

3-10-8 Kamiuchiai, Shinjuku-ku, Tokyo 161-8508  
Phone: +81 3-3360-5121 FAX: +81 3-3365-8605

<https://www.oval.co.jp/english>

