



Vortex Flow Monitor



- Made of PPS resin: compact, lightweight, and economical.
- Ideal for consumption management of energy-fluids or coolant, as well as end-of-process flow monitoring via installation to various equipment.
- Capable of measuring wide range of liquid and gas.
- Resistant to dust and mist. Capable of wet-gas measurement.
- Maintenance free due to absence of moving parts.
- ATEX, TIIS compliant.

■ GENERAL SPECIFICATIONS

1	Description							
	4mm	8mm	15mm	25mm				
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				
Process connection R male (resin), NPT male (resin), Rc female (metal)								
Non-explosionproof or explosionproof								
	Liquid: ±2% of full scale or better Gas: ±3% of full scale or better							
erating pressure 0.98MPa								
e	Standard: -20 to +80°C Explosionproof: -20 to +60°C							
Ambient temp. range -20 to +60°C								
	Meter body, Transmitter housing: PPS resin (Polyphenylene sulfide) O-ring: Viton							
Power supply 12 to 24VDC								
Output Flow pulse: Open collector (Capacity: 30VDC, 20mA), Pulse width: Duty ratio 1:1 approx.								
Dusttight/waterproof rating IP65 (*1)								
on	Free	from rain and water with minimal tem	perature variation, not exposed to the	sun.				
	Water Air ion ressure ange oof rating	4mm Water 0.4 to 4 Air 7.2 to 17 ion	4mm 8mm Water 0.4 to 4 1.1 to 15 Air 7.2 to 17 18 to 90 ion R male (resin), NPT male Non-explosionprot Non-explosionprot ressure 0.98 e Standard: -20 to +80°C R nge	4mm 8mm 15mm Water 0.4 to 4 1.1 to 15 2.8 to 45 Air 7.2 to 17 18 to 90 55 to 283 ion R male (resin), NPT male (resin), Rc female (metal) Non-explosionproof or explosionproof Liquid: ±2% of full scale or better Gas: ±3% of full scale or better ressure 0.98MPa Standard: -20 to +80°C Explosionproof: -20 to +60°C nge -20 to +60°C Meter body, Transmitter housing: PPS resin (Polyphenylene sulfide) O-ring: 12 to 24VDC Flow pulse: Open collector (Capacity: 30VDC, 20mA), Pulse width: Duty ratio 1:1 roof rating IP65 (*1)				

*1: IP ratings vary according to structures.

UNFACTORED PULSE UNITS OF MEASUREMENT (NOMINAL VALUES)

Nominal size	Pulse un	its mL/P	Freq. at max. flowrate (Hz)		
(mm)	Liquid	Gas	Liquid	Gas	
4	0.0890	0.890	750	320	
8	0.5406	5.406	460	280	
15	2.363	23.63	320	200	
25	12.66	126.6	180	120	

EXPLOSIONPROOF RATINGS

		Flowmeter	Barrier			
Exp.	TIIS	Exia IIB T4	(Exia)IIB			
ratings	ATEX	Exia IIB T4 Ga/Gb	(Exia Ga)IIB			
* Barrier to be installed in a nonhazardous area.						

EMC SPECIFICATIONS

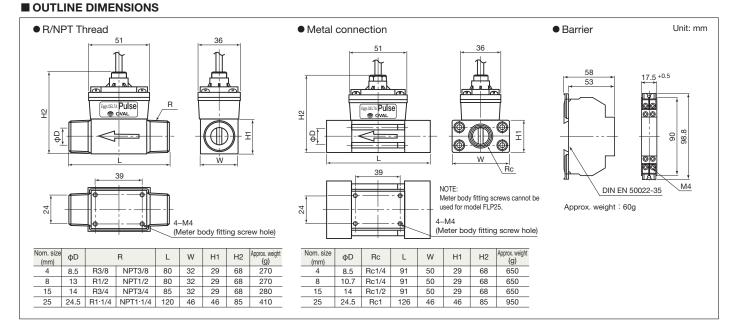
Applicable EU directives	EMC directives: 2014/30/EU		
Applicable standards, etc.	EMC directives:EN61326-1 Class A		

■ PRODUCT CODE EXPLANATION

Item Code No.												Description		
item	1	2	3	4	(5)	-	6	\bigcirc	8	9	10	Description		
Model	F	L	Ρ									Eggs DELTA Pulse		
0 4 -											4mm			
0 8 - 1 5 -							8mm							
								15mm						
	2 5 -				-						25mm			
L 1						L	1				Liquid			
Acceptable fluids G 2					2				Gas					
P									Р			R (male thread) Process connection material : PPS		
Process connection S								S			Rc (female thread) Process connection material : SCS14A			
									Ν			NPT (male thread) Process connection material : PPS		
Version B										В		Always "B"		
											0	Non-explosionproof		
Construction										1	TIIS Intrinsically safe enclosure: Sensor + barrier			
										2	ATEX Intrinsically safe enclosure: Sensor + barrier			

BARRIER

Item	Description		
Power	12 to 24VDC		
Current drain	10mA max.		
Pulse output	Open collector pulse (Capacity: 30VDC, 20mA)		
Operating temp. range	-20 to +50°C		
Major parts material	Housing : Polycarbonate		
Dusttight, waterproof enclosure	IP30		



The specification as of January, 2021 is stated in this catalog. Specifications and design are subject to change without notice.

