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Product Information

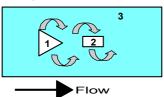
Flow Transmitter CF



- Flow measurement device using the vortex measurement principle
- High precision
- High stability to excessive flow rates
- No moving parts
- Rapid installation and removal thanks to clamp fastening
- Various connections using building block system

Characteristics

A narrow triangular body (1), which goes through the complete cross-section of the measurement pipe, creates vortices in the medium when there is a flow (Kármán vortex street, vortex effect). The frequency of the vortex is proportional to the flow, and is detected using a piezo-sensor (2), which lies behind the triangular body. The complete unit, vortex body, and detector are designed as a plug-in unit (3), and are inserted into the pipe. Here, a lightning fast separation between measurement pipe and the complete measurement unit is possible.



The frequency signal is made available to the output via a push-pull transistor stage, and is resistant to short circuits and reversed polarity protected. The push-pull output can as desired be connected as a PNP or an NPN output.

Professional Instrumentation

Technical data

Sensor	vortex principle		
Nominal width	DN 8 25		
Process	female thread G ¹ / ₄ G 1		
connection	(others available on request)		
Metering ranges	0.9150 l/min		
	for details, see table "Ranges"		
Measurement	up to 50 % of full scale value:		
accuracy	±1 % of measured value		
	from 50 % of full scale value:		
Dunganung	±2 % of measured value		
Pressure resistance	PN 10 bar		
Media	0.60 °C		
temperature	UDU C		
Ambient	-20+70 °C		
temperature	2070		
Materials	Housing	CW614N plated,	
medium-contact		1.4571 or POM GF	
	Connection	CW614N plated,	
		1.4571 or POM	
	Detector	ETFE PA6T6I 40 % GF	
	Seal	EPDM	
Supply voltage	1030 V DC		
Current	approx. 20 mA (without load)		
consumption at			
rest			
Signal output	transistor output "push-pull"		
	(resistant to short circuits and polarity reversal)		
	I _{out} = 100 mA max.		
	for output frequencies see table		
	"Ranges"		
Electrical	for round plug connector M12x1, 4-pole		
connection			
Ingress protection	IP 67		
Weight	see table "Dimensions"		
Conformity	CE		

Ranges

G	Types	Range	Frequency	
		I/min H₂O	Hz	
G ¹ / ₄	CF-008GM.	0.9 15 l/min	approx. 34437	
G 3/8	CF-010GM.	1.8 32 l/min	approx. 24382	
G ¹ / ₂	CF-015GM.	3.5 50 l/min	approx. 19269	
G 3/4	CF-020GM.	5.0 85 l/min	approx. 14229	
G 1	CF-025GM.	9.0150 l/min	approx. 12202	

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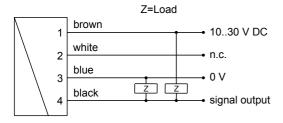
Honsberg Instruments GmbH

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Product Information

Wiring



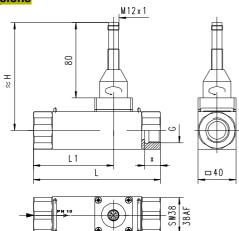
Connection example: PNP NPN



Before the electrical installation, it must be ensured that the supply voltage corresponds with the data sheet.

It is recommended to use shielded wiring.

Dimensions



G	DN	Types	Н	L	L1	X	Weight* kg
G 1/4	DN 8	CF-008GM	113	125	69	12,5	1.45
G 3/8	DN 10	CF-010GM	111	100	50		1.10
G 1/2	DN 15	CF-015GM	113			14,5	1.10
G 3/4	DN 20	CF-020GM	115	135	85	16,5	1.50
G 1	DN 25	CF-025GM	117	155	95	18,5	1.30

^{*}Weight details for metal model. Plastic models available on request

Handling and operation

Installation

The vortex flow meter requires a run-in length of 5..10 x D in order to achieve its specified accuracy. If deposits are to be expected, sensor and electronics should not be installed underneath. It should be ensured that the sensor is installed in the direction of the flow arrow. If the sensor is to be cleaned, the clamps should be released, and the device removed (the pipe should be pressure-free for this). It should be ensured during cleaning that the oscillating vortex body is not exposed to impact (in the moulded part there is a sensitive piezo-ceramic sensor, which can break).

Ordering code



O = Option

1.	Nominal width				
	008	DN 8 - G ¹ / ₄			
	010	DN 10 - G ³ / ₈			
	015	DN 15 - G ¹ / ₂			
	020	DN 20 - G ³ / ₄			
	025	DN 25 - G 1			
2.	Process connection				
	G	female thread			
3.	Connection material				
	M	CW614N plated			
	-	1.4571			
	P O	POM			
4.	Body material				
	M	CW614N plated			
	K	1.4571			
	P O	POM GF			
5.	Metering				
	015	0.9 15 l/min			
	032	1.8 32 l/min			
	050	3.5 50 l/min			
	085	5.0 85 l/min			
	150	9.0150 l/min			
6.	Sealing r				
	E	EPDM			
7.	Signal or	ıtput			
	F	frequency output (push-pull)			
8.	Electrical connection				
	S	for round plug connector M12x1, 4-pole			

Accessories

- Cable/round plug connector (KB...) see additional information "Accessories"
- Counter EEZ-904
- Converter/counter OMNI-TA

