

FMG200 Series High Precision Gear Flowmeter

PRINCIPLE & FEATURES

FMG200 gear flow sensor is equipped with double gears to operate. Through highprecision gear volume calculation medium through volume, micro fluid medium measurement can be achieved. It is a new type of volumetric flow sensor, which is used to measure the flow or instantaneous flow of liquid in pipeline continuously or intermittently

- Pulse / analog dual output
- PNP / NPN arbitrary switching
- LED display
- High pressure resistance (1.0-45mpa)
- High and low temperature resistance (- 196 ° C-200 ° C)
- Can measure all kinds of viscous medium
- High precision and repeatability
- Range ratio width (1:100)
- Wide measurement range
- Strong anti-corrosion and anti pollution ability (acid and alkali)





APPLICATION

FMG200 gear flow sensor is widely used in low flow precise measurement of various industries, applicable media: additive fuel, flotation cell for water treatment, corrosion inhibitor, catalyst, emulsifier, oil, grease, perfume, adhesive, solvent, ink and insecticide and some high viscosity media. Application industries include automobile, aviation, mining, electric power, chemical industry, pharmaceutical industry, food industry, coating industry, petroleum industry, environmental protection industry, printing industry, etc.

Especially suitable for flow measurement of heavy oil, polyvinyl alcohol, resin and other medium with high viscosity

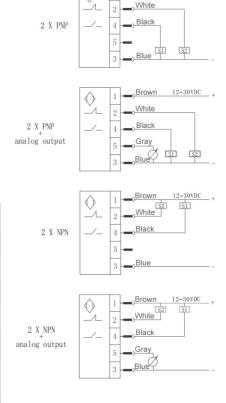
Small volume, light weight, small vibration and noise and stable operation. It can also be used to measure small flow of small diameter. Small initial flow, wide range ratio, suitable for measuring liquid flow with large variation. The measurement accuracy is not affected by pressure and flow change, stable performance, long service life and large flow capacity

- Resin and glue measurement
- Measurement of hydraulic oil, lubricating oil and grease
- Fuel oil measurement
- Ink and asphalt measurement
- Liquid nitrogen, freezing liquid and solvent measurement
- Filling measurement of edible oil, fish oil and food
- Chemical engineering and anti-corrosion requirements fluid measurement
- Fluid quantitative control system

ELECTRIC CONNECTION

Brown

12~30VDC

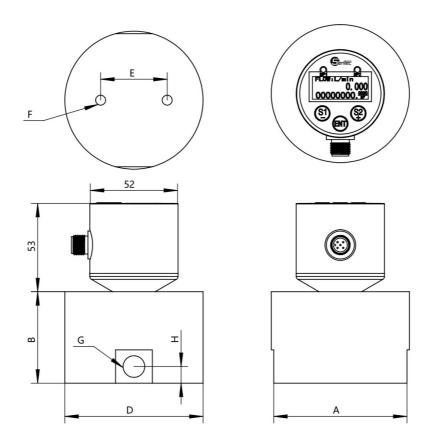


TECHNICAL PARAMETER

Range	0.005 ~ 330 L/min (support customized range)			
Output signal	4-20mA, PNP / NPN			
Accuracy	0.5% F.S			
Repeatability	0. 1%F. S			
Power supply	16~ 30VDC			
Medium temperature	- 30 \sim 80 $^{\circ}$ C (high temperature customized 150 $^{\circ}$ C)			
Pressure resistant	Aluminum (150bar), Stainless steel (400bar), PP (withstand voltage 50bar)			
Material	Shell: aluminum, stainless steel, Display: stainless steel			



DIMENSION (mm)



SIZE & FLOW RANGE

CODE	M2	M4	M6	M10	M15	M25	M32
Range	5-300mL/min	0.1-3L/min	0.15-8L/min	0.8-20L/min	3-50L/min	20-200L/min	30-330L/min
А	80	80	80	80	110	140	160
В	55	55	62	65	65	85	100
D	83	83	83	83	113	158	218
Н	16	16	14	14	28	40	45
Е	40	55	55	55	90	110	180
F	2*M6	2*M6	2*M6	2*M6	2*M6	2*M8	2*M8
G	G1/4	G3/8	G1/2	G1/2	G3/4	G1	M35*1.5



ORDER CODE

FMG200	M15	S2	F	L	-	Explanation	
FMG200						High precision gear flowmeter	
	M15					Measurement range: M2-M32 optional MC=Customized range	
		S2				Two way switch	
		SF				Two way switching value + pulse output	
		А3				Output signal 2-way PNP / NPN + 4 - 20mA	
			F			Sealing material FKM (standard)	
			Р			Sealing material PP (anticorrosive)	
				L		Body material: alumina	
				S		Body material:304SS	
				Р		Body material:PP	
					-	T: High temperature resistance 150 °C	

FLOW CALCULATION METHOD

The K-factor (flow factor) of FMG200 gear flow sensor precisely defines the number of pulses per liter per unit flow.Q=fX 60/K

Q = instantaneous flow rise / min

F = output pulse frequency Hz

K = coefficient pulse of gear flowmeter / min

OPTIONAL ACCESSORIES

Name	Picture/Dimension (mm)	Material	Model
M12*1-5PIN		PUR	ZL05-PU02G
(2 meter cable)	50		ZL05-PU05G
M12*1-5PIN	0 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1		ZL05-PU010G
(5 meter cable)		PVC	ZL05-PC02G
M12*1-5PIN			ZL05-PC05G
(10 meter cable)			ZL05-PC010G
M12*1-5PIN (2 meter cable)		PUR	ZL05-PU02W
	36		ZL05-PU05W
M12*1-5PIN	38		ZL05-PU010W
(5 meter cable) M12*1-5PIN	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	PVC	ZL05-PC02W
	Φ 15		ZL05-PC05W
(10 meter cable)			ZL05-PC010W

