



Features

- Pulse/analog dual output
- High pressure resistance (1.0-45MPa)
- High and low temperature resistance (-196°C-200°C)
- Can measure various viscous media
- High precision and high repeatability
- Wide turndown ratio (1:100)
- Wide measurement range
- Strong anti-corrosion and anti-fouling ability (acid and alkali)

Product principle

FM530 gear flow sensor has built-in double gear operation, and calculates the volume of medium passing through the high-precision gear volume to achieve the measurement of micro fluid medium. It is a new type of volumetric flow sensor for precise continuous or intermittent measurement of liquid flow or instantaneous flow in pipelines.

Application field

The FM530 gear flow sensor is widely used in various industries for accurate measurement of low flow rates, suitable media: additive fuels, flotation cells for water treatment, corrosion inhibitors, catalysts, emulsifiers, oils, greases, fragrances, adhesives, solvents, Some high-viscosity media such as inks and pesticides. Application industries include automobile, aviation, mining, electric power, chemical, pharmaceutical, food, paint, petroleum, environmental protection, printing and other industries.

It is especially suitable for flow measurement of medium with high viscosity such as heavy oil, polyvinyl alcohol and resin. (It can measure fluids with viscosity up to 10000Pa.s) Small volume, light weight, low vibration noise and stable operation during operation. It can also be used to measure small flow measurement of pipe diameter. Small starting flow, wide range ratio, suitable for measuring liquid flow with large fluctuations, measurement accuracy is not affected by pressure and flow changes, stable performance, long life, and large flow capacity

- Resin, glue measurement
- Hydraulic oil, lubricating oil, grease measurement
- Fuel oil measurement
- Ink, pitch measurement
- Liquid nitrogen, cryogen, solvent measurement
- Edible oil, fish oil and food filling measurement
- Chemical and anti-corrosion requirements fluid measurement
- Fluid quantitative control system

technical parameter

◇ Measurement range: 2~350 L/min (support customized range)

◇ Output signal: pulse output, 4-20mA, PNP/NPN

◇ Measurement accuracy: 0.5%F.S

◇ Repeatability: 0.1%F.S

◇ Power supply: 16~30VDC

◇ Medium temperature: -30~80°C

(high temperature customized 150°C)

◇ Pressure resistance: Aluminum (150bar)

Stainless steel (400bar)

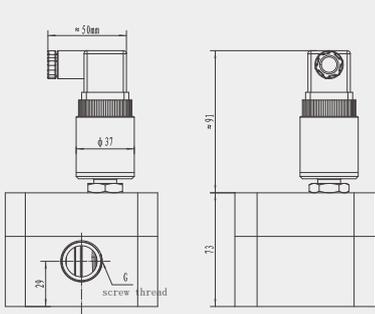
◇ Material: Shell: aviation aluminum/alumina/stainless steel

Display: Stainless Steel

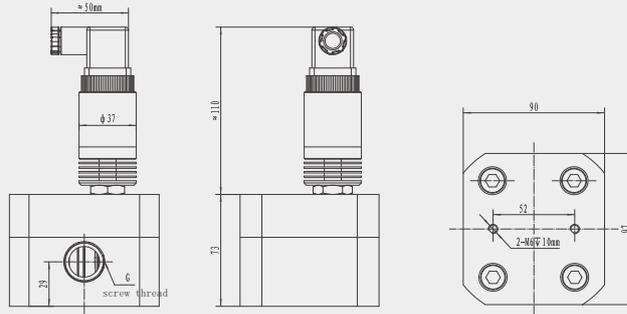
Hessman Plug/Dimensional Drawing/Wiring Diagram

	illustrate	4-20mA	pulse
	positive electrode	1	1
	negative electrode		2
	output	2	3

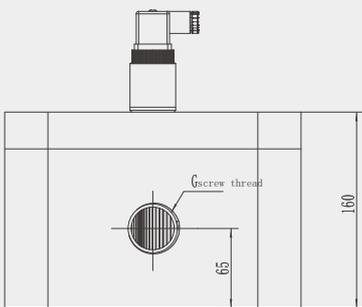
Standard(-20~100°C)



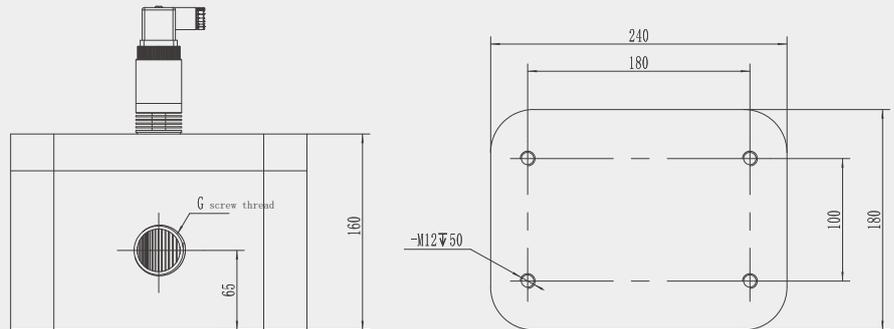
High temperature(-40~150°C)



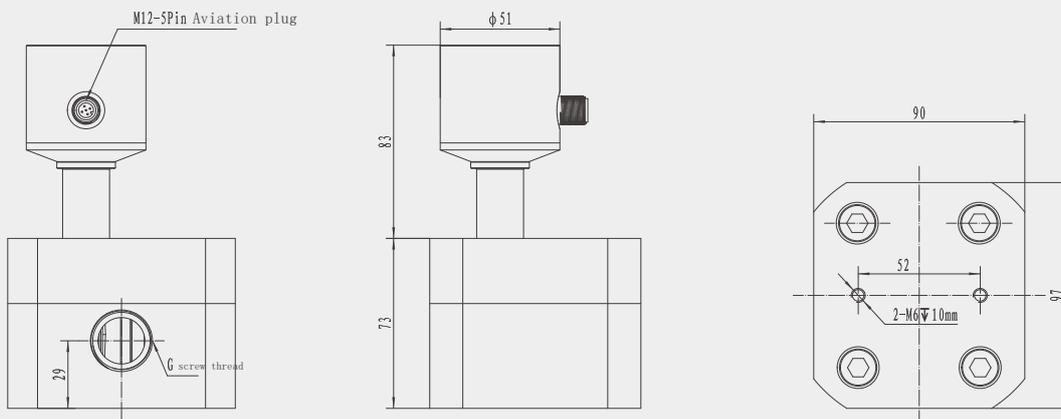
30-350L/min(-20~100°C)



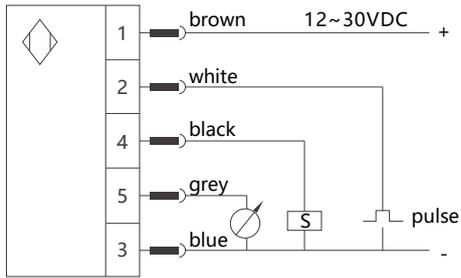
High temperature 30-350L/min(-40~150°C)



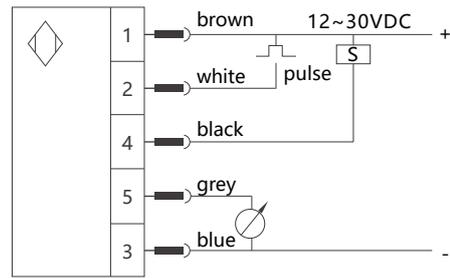
Hessman Plug/Dimensional Drawing/Wiring Diagram



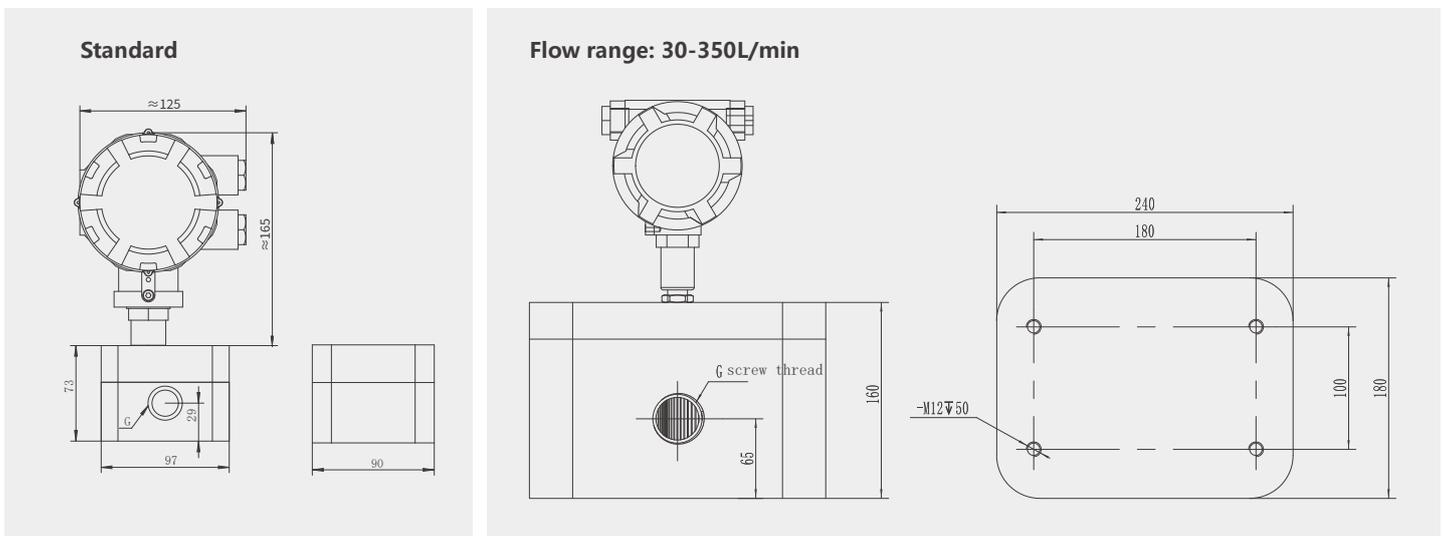
PNP+pulse+analog



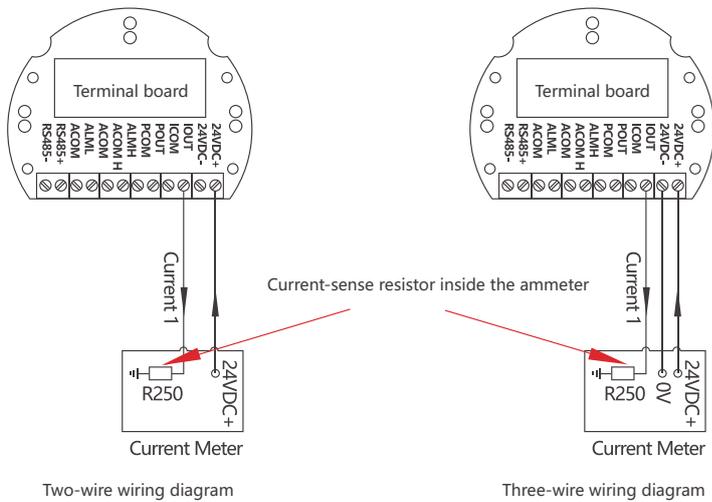
NPN+pulse+analog



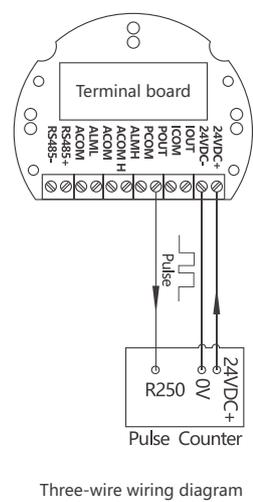
Full function explosion-proof type/dimension drawing/wiring diagram



4-20mA Current output wiring diagram



Pulse output wiring diagram



Selection table

FM530-	M25	PAF	F	L	--	illustrate
FM530						FM530 New and upgraded version of high-precision gear flowmeter
	M25					Measuring range: 2-25L/min (Standard thread G1/2 internal thread)
	M50					Measuring range: 5-50L/min (Standard thread G3/4 internal thread)
	M100					Measuring range: 10-100L/min (Standard thread G1 internal thread)
	M200					Measuring range: 20-200L/min (Standard thread G1/4 internal thread)
	M350A					Measuring range: 30-350L/min (Standard thread G2 internal thread)
	M350B					Measuring range: 30-350L/min (Standard thread M42*2 internal thread)
		HP				pulse type
		HA				Analog 4-20mA
		MP				pulse type
		MA				Analog 4-20mA
		PAF				PNP+analog+pulse output
		NAF				NPN+analog+pulse output
		E				Full-featured explosion-proof type
			F			Sealing material: Viton
			T			Seal Material: PTFE Teflon
				L		Body Material: Alumina
				H		Body material: aviation aluminum
				S		Body material: 304ss stainless steel
				S1		Body material: 316L stainless steel
					-	T: high temperature resistance 150°C

Optional accessories - electrical accessories

name	Outline drawing/dimension drawing (mm)	material	model
M12*1-5Pin (2m cable)		PUR	ZL05-PU02G
M12*1-5Pin (5m cable)			ZL05-PU05G
M12*1-5Pin (10m cable)		PVC	ZL05-PC02G
M12*1-5Pin (2m cable)			ZL05-PC05G
M12*1-5Pin (5m cable)		PUR	ZL05-PU02W
M12*1-5Pin (10m cable)			ZL05-PU05W
M12*1-5Pin (2m cable)		PVC	ZL05-PC02W
M12*1-5Pin (5m cable)			ZL05-PC05W
M12*1-5Pin (10m cable)		PVC	ZL05-PC010W
M12*1-5Pin (2m cable)			ZL05-PC010W

M12* 1-4pin /5Pin self-connector/size drawing (mm)	model
	GL04 (4Pin joint)
	GL05 (5Pin joint)
	WL04 (4Pin joint)
	WL05 (5Pin joint)