



principle and characteristics

SN52 series electromagnetic flowmeter is a main flow meter, consists of a sensor and a converter two parts, based on Faraday's law of electromagnetic induction work, used to measure the conductivity of liquid or two-phase medium, The electrical conductivity should be generally greater than $5 \mu\text{ s/cm}$ (from the original water conductivity of about $100\text{--}500 \mu\text{ s/cm}$), can be used to measure a variety of acid, alkali, salt solution, pulp, pulp and other media, but the medium can not contain more ferromagnetic substances and a large number of bubbles, Widely used in petroleum, chemical, metallurgy, textile, paper, environmental protection, food and other industrial departments and municipal management, water conservancy construction and other fields of fluid measurement.

- ◆ Set range: 1... 150 cm/s (water)
- ◆ The measurement pipe has no obstructing flow parts, no pressure loss, and the requirement of straight pipe section is low
- ◆ sensor can be equipped with grounding electrode, to achieve good grounding of the instrument
- ◆ has a positive/negative two-way flow measurement function
- ◆ Converter with LCD backlight display makes reading in direct sunlight or dark room easy
- ◆ converter can simultaneously display volume flow percentage, actual flow and cumulative flow
- ◆ Mounted on a pipe with a standard (model) rotating display into $\leq 90^\circ\text{C}$ improves visibility of a body type flowmeter
- ◆ The converter has the functions of self-diagnosis alarm output, empty load detection alarm output, flow upper and lower limit alarm output, two-stage flow value output and so on

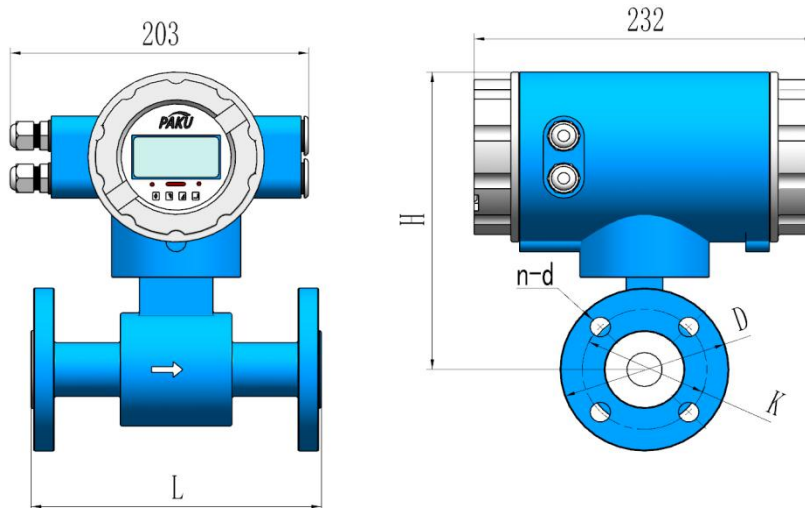
technical index

caliber	DN10 – DN1000
Liquid Measure	Conductive liquid, slurry
conductivity	$\geq 51\text{S/cm}$
accuracy	Indicates $\pm 0.5\%$ of the value, optionally $\pm 0.3\% \pm 0.2\%$ of the value
measuring range	Flow rate setting: $0.1 \sim < 15\text{m/s}$
structural style	One body type, separate body type
electrode material	Stainless Steel 316L, Platinum-Iridium, Hastelloy, Tantalum, Titanium
lining material	Chloroprene rubber, polytetrafluoroethylene (PTFE), poly perfluoroethylene propylene (FEP), polyurethane rubber
canning material	Carbon steel (standard), stainless steel (non-standard custom)
medium	$-40^\circ\text{C} \sim +180^\circ\text{C}$, limited by the temperature resistance of the lining material
environment temperature	$-25^\circ\text{C} \sim +60^\circ\text{C}$
ambient humidity	5~100%RH (relative humidity)
enclosure protection class	IP65、IP68

measuring range

nominal diameter DN (mm)	flow range (m ³ /H)					
	floor		upper limit		upper limit	
4					0.04	0.25
6					0.1	0.6
10					0.12	1.2
15			0.3	3	0.6	6
20					0.7	7
25					1	10
32					1.5	15
40					2	20
50					4	40
65					8	80
80					10	100
100					20	200
150					40	400
200					80	800
250			120	1200		
300	180	1800				

dimension figure



Selection table

SN52-	050	A	A	1	1	1	1	D	1	1	specification
SN52-											SN52 series electromagnetic flow sensor
	DN...										(Optional diameter DN10–DN1000 special pipe diameter, please consult sales engineer)
electrode		A									stainless steel316L
		B									hastelloyB
		C									hastelloyC
		D									platinum
		E									titanium
		F									
lining material		A									neoprene (CR)
		B									urethanes(PU)
		C									PTFE
		D									FEP
working pressure				1							4.0MPa
				2							1.6MPa
				3							1.0MPa
operating temperature				1							≤70℃
				2							≤120℃
output mode				1							Analog quantity 4–20mA output, on-site display
				2							Pulse output, local display
				3							Analog quantity 4–20mA output, no display
				4							Pulse output, no display
communication mode				0							无
				1							RS485 communication interface
power supply mode								J			220V
								D			24V
								C			Battery powered (no output option only)
level of protection								1			IP65
								2			IP68
Converter Type									1		integrated
									2		split type

* The scope of supply of electromagnetic flowmeter does not include the paired flange, the user can manufacture or order separately.

* The selection table is only available for parameter selection, and the corresponding code is delivered.