



Principle characteristics

Thermal principle, gas mass flowmeter, display direction can be reversed 180°, easy to set and view 4-digit LED display.

Technical specification

Display accuracy $\pm 3\%$ F.S.

Repeatability $\pm 3\%$ F.S.

Electronic display of instantaneous flow rate

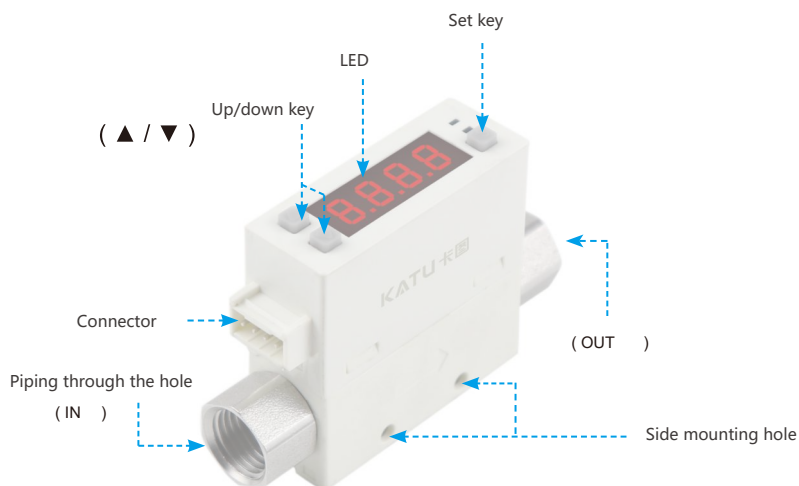
View accumulated traffic

With switch output NPN/PNP output function

Analog: Voltage output 1~5 V

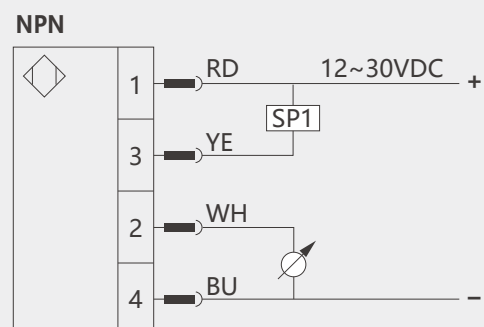
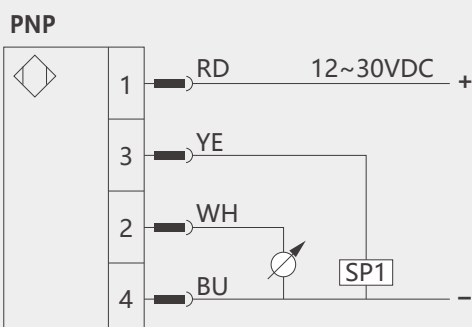
Analog output: Current output 4~20 mA

Panel description

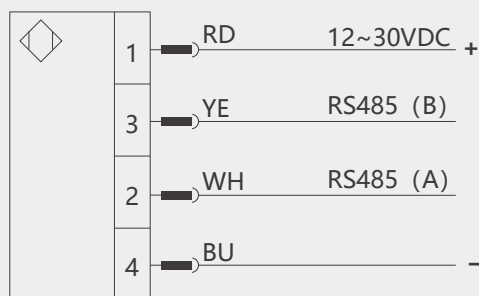


Wiring diagram

One switch + one analog



RS485 communication



Technical parameter

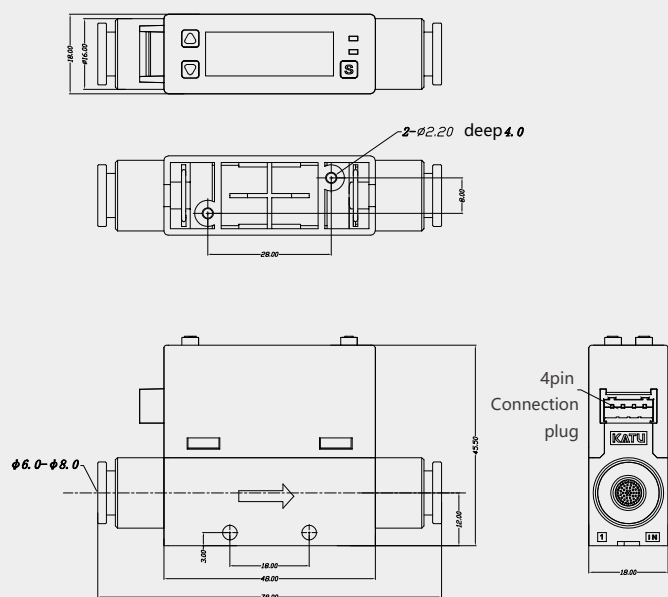
Model number			0005	0010	0050	0100	0200	1000	2000	
Applicable gas			Dry air, nitrogen (N2), non-corrosive, non-flammable							
Sensing element		Rated flow range	0 ~ 5 L/min	0 ~ 10 L/min	0 ~ 50 L/min	0 ~ 100 L/min	0 ~ 200 L/min	0 ~ 1000 L/min	0 ~ 2000 L/min	
		Detection direction	unidirectional							
			4 digit LED digital display (Flow)							
display	Instantane ous flow	Display range		0 ~ 5.25 L/min	0 ~ 10.50 L/min	0 ~ 52.5 L/min	0 ~ 105.0 L/min	0 ~ 210 L/min	0 ~ 1050 L/min	0 ~ 2100 L/min
		Display range	LPM	0.01 L/min	0.01 L/min	0.1 L/min	0.1 L/min	1 L/min	1 L/min	1 L/min
precision		Accuracy guarantee range		linearity						
		Display accuracy		±3% F.S.± + 1digit						
		Analog output accuracy		±3% F.S.± + 1digit						
		repeatability		±3% F.S.± + 1digit						
		Linear form		±3% F.S.						
Switching output	Reaction time		800 ms (50 ms, 80 ms, 120 ms, 200 ms, 400 ms, 1500 ms Can be Selected)							
	Output mode		Hysteresis mode, window mode, pulse mode(Full scale 150 HZ)							
	Return difference		tunable							
	Output short-circuit protection		YES							
Analog quantity exportation	Voltage output		Output voltage range: 1 ~ 5 V							
			Output impedance: 1 KΩ							
	Current output		Output current range: 4 ~ 20 mA							
			Load impedance: ≤ 300Ω							
		Reaction time	≤ 100 ms							
Communication interface			RS485 ※5							
Power source		Supply voltage	12 ~ 24 V DC ± 10 %							
		No-load current	≤ 50 mA							
Environment al requirement	Service pressure range		-0.09 ~ 0.8 MPa							
	Pressure resistance		1 MPa							
	Class of protection		IP40							
	Medium temperature		0 ~ 50 °C (no water dew and no ice)							
	temperature		Action: 0 ~ 50 °C, storage: -10 ~ 60 °C (no water dew and no ice)							
	humidness		Operation and preservation: 35 ~ 85% R.H. (waterless dew)							
	Insulation impedance		≥ 50 MΩ (500 V DC, between leads and plastic housing)							
	Withstand voltage		1000 V AC 1 min (between leads and plastic housing)							
EMC			IEC 61000-6-2, IEC 61000-6-4							
Wire specification			Ø4 Oil resistant PVC (0.25m ʔ) -4 cores							
Weight (including 2 m of wire)			Approx. 109.3g (Ø6 connector); Approx. 112.7g (Ø8 connector); Approx. 118 g (Rc¼ connector); Approx. 128.5g (Rc½ connector)							

※1: The standard inlet pressure is 300 kPa, outlet pressure is 1 atmosphere, and temperature condition is 25 °C (factory standard).

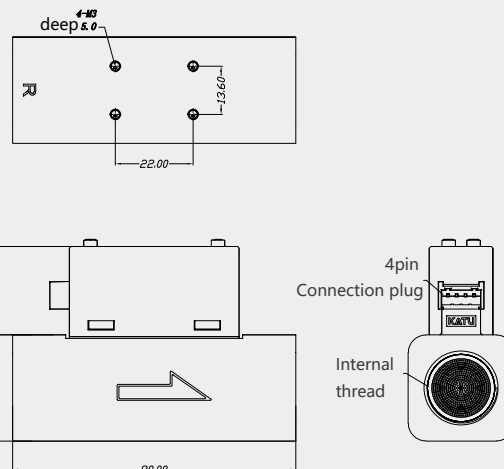
※2: -0.09 ~ 0.8MPa, 1 atmospheric pressure at the outlet, 25 °C temperature (factory standard)

Size drawing (mm)

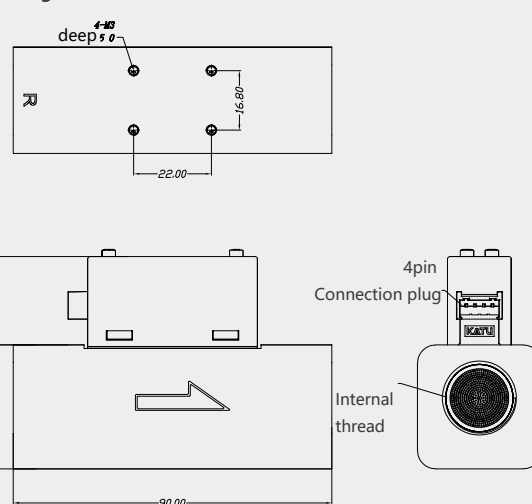
Piping type



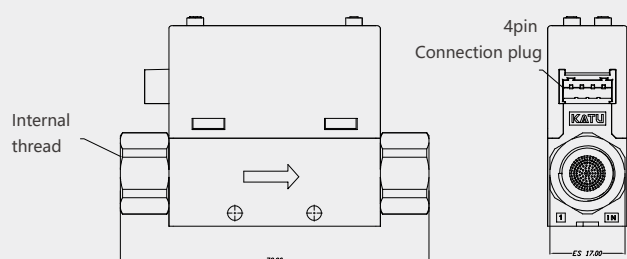
Flow range: 1000L



Flow range: 2000L

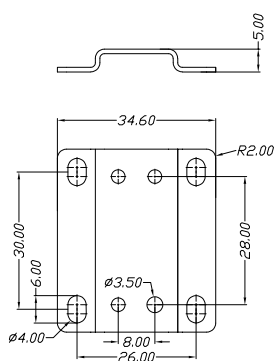


Internal thread type

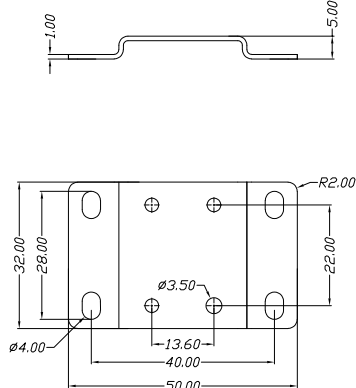


Mounting bracket

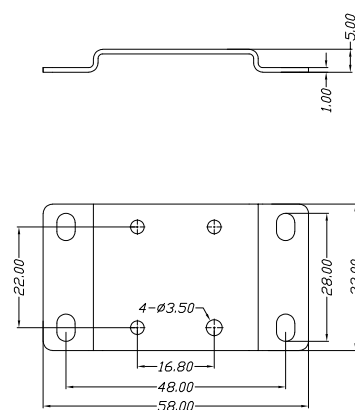
< 200L



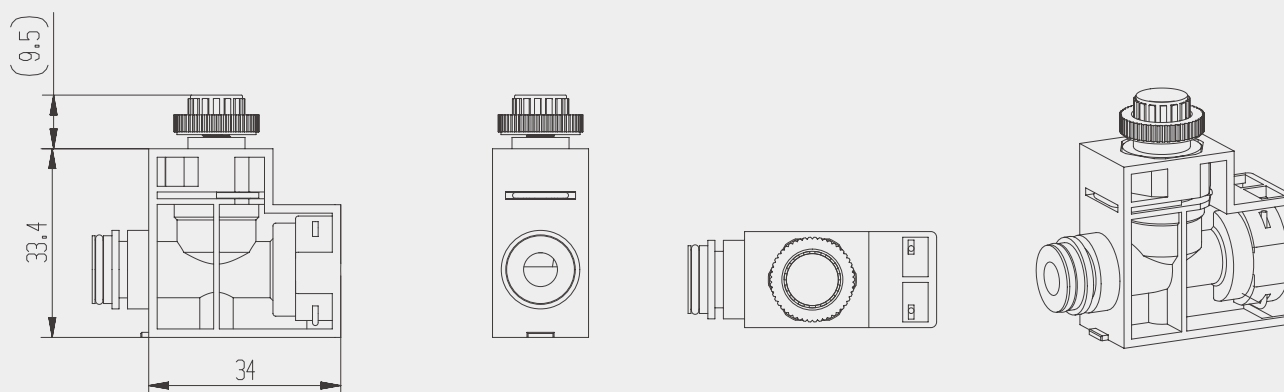
1000L



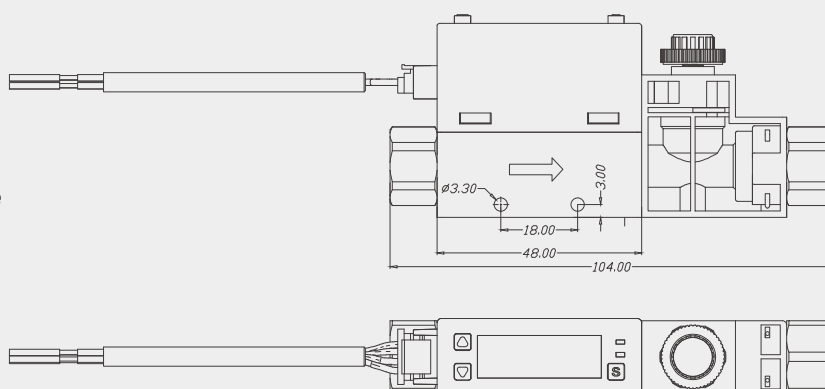
2000L



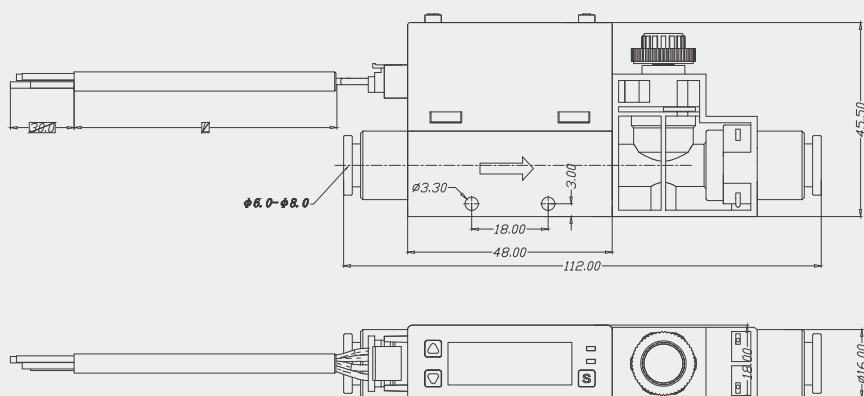
Regulating valve size diagram (mm)



Internal thread type



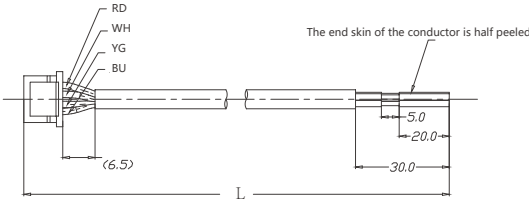
Piping type



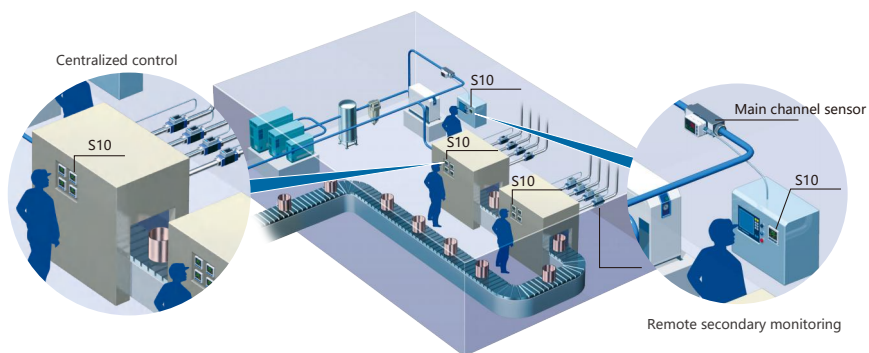
Selection list

FM350-	0005	NV	D6	-	-	expatiate
FM350-						FM350 Gas flow sensor
	0005					Flow range: 5 L/min
	0010					Flow range: 10 L/min
	0050					Flow range: 50 L/min
	0100					Flow range: 100 L/min
	0200					Flow range: 200 L/min
	1000					Flow range: 1000 L/min
	2000					Flow range: 2000 L/min
		NV				Output signal: NPN+ analog 1 ~ 5V
		NA				Output signal: NPN+ analog 4 ~ 20 mA
		PV				Output signal: PNP+ analog 1 ~ 5V
		PA				Output signal: PNP + analog 4 ~ 20 mA
		R				Output signal: RS485
			D6			Nozzle diameter: Ø6mm quick connector, flow range ≤50L/min
			D8			Nozzle diameter: Ø8mm quick connector, flow range 100/200L/min
			R18K			Nozzle diameter: Rc½ pipe tooth connector, flow range ≤50L/min
			G18K			Nozzle diameter: G½ internal thread, flow range ≤50L/min
			R14K			Nozzle diameter: Rc¼ pipe tooth joint, flow range 100/200L/min
			G14K			Nozzle diameter: G¼ internal thread, flow range 100/200L/min
			R12K			Nozzle diameter: Rc½ tooth joint, flow range 1000L/min
			G12K			Nozzle diameter: G½ internal thread, flow range 1000L/min
			R34K			Nozzle diameter: Rc¾ pipe tooth joint, flow range 2000L/min
			G34K			Nozzle diameter: G¾ internal thread, flow range 2000L/min
				-		No bracket
				-T		Tape carrier
					-	No regulating valve
					F	Tape regulating valve(Only ≤200L/min optional)

Optional accessories - Electrical accessories

name	Outline drawing/dimension drawing (unit :mm)	material	model number
Four core buckle plug 2 meters wire (FM350)		PVC	XH4PC02G
Four core buckle plug 10 meters wire (FM350)			XH4PC10G

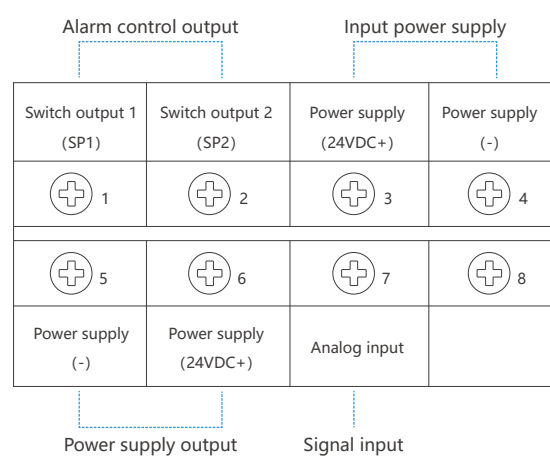
Application drawing



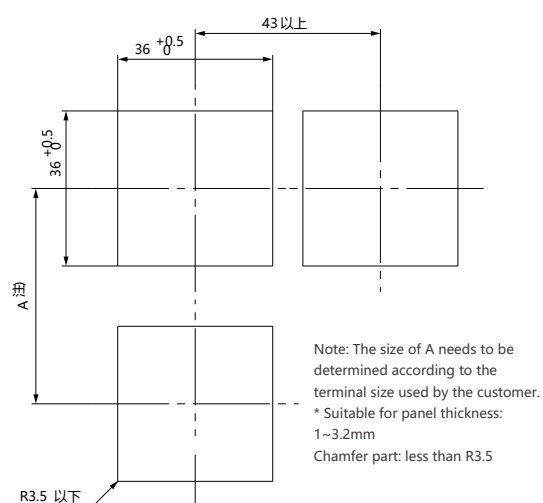
Technical parameter

- ◇ Input specification: Analog quantity (pulse)/PT100 is optional
- ◇ Display range: -199.9~999.9
- ◇ Temperature drift: $\leq \pm 0.015\%FS / ^\circ C$ (typical value about $\pm 75ppm/^\circ C$)
- ◇ Electromagnetic compatibility:
IEC61000-4-4 (electrical fast transient pulse group), $\pm 4KV/5KHz$;
IEC61000-4-5 (Surge), 4KV
- ◇ Output function: Switch/analog quantity is optional
- ◇ Power supply: 24VDC $\pm 20\%$
- ◇ Power consumption: $\leq 3W$
- ◇ Operating environment: temperature $-10\sim +60^\circ C$;
Humidity $\leq 90\%RH$

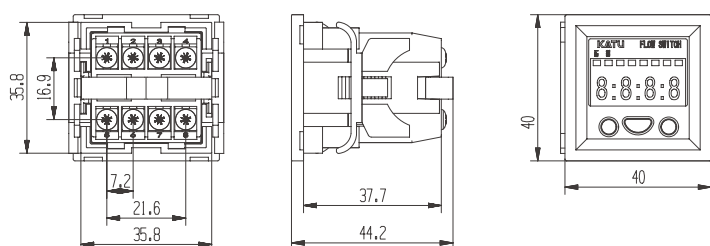
Wiring diagram



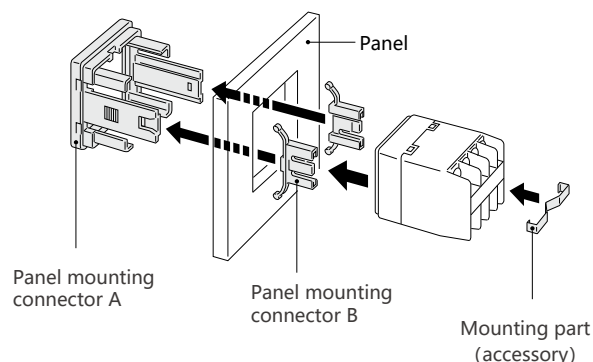
Panel opening size



Size drawing (mm)



Panel mounting



Order model	Technical Description	
S10-21	Input signal: Analog quantity Output signal: Output by two switches	Display unit: L/min