

Clamp-Mounted Flow Sensor

FT-Q Series



Simplify measurement

The flow meter snaps onto the outside of the tube, eliminating the need for additional piping modifications.



Easy to install without specialized training

To install, clip on; use screws to secure.



Installation without stopping production

Installation without stopping production.



Ask SENPUM

+86-755-83330055

Fast Delivery Standard Models



Most products are in stock. Upon receiving your order, we will arrange prompt shipment to minimize your downtime-related costs and losses.



WeChat



WhatsApp



LINE

Widely used, suitable for a variety of tubes and a variety of media

Metal pipes: stainless steel pipes, carbon steel pipes, copper pipes, etc.
Plastic pipes: PVC/CPVC, PVDF, PPR, PPH, PFA/PU, HDPE, etc.

Applications



Confirmation of flow rate of medicine dispenser



Confirmation of filling volume of food products



Fuel flow measurement

Product List

Appearance	Maximum flow rate (L/min)	Nominal diameter (DN)	Model
	11.02	DN6	FT-Q6
	19.59	DN8	FT-Q8
	30.62	DN10	FT-Q10
	52.99	DN15	FT-Q15
	94.2	DN20	FT-Q20
	147.19	DN25	FT-Q25
	241.15	DN32	FT-Q32
	376.8	DN40	FT-Q40
	588.75	DN50	FT-Q50

Specifications

Type	Clamp type								
Model	FT-Q6	FT-Q8	FT-Q10	FT-Q15	FT-Q20	FT-Q25	FT-Q32	FT-Q40	FT-Q50
Nominal diameter (DN)	DN6	DN8	DN10	DN15	DN20	DN25	DN32	DN40	DN50
Pipe OD (mm)	Φ9.53	Φ12.7	Φ15	Φ20	Φ25	Φ32	Φ40	Φ50	Φ63
Pipe OD (NPS)	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
OD range (mm)	9.5–11.5	12–13.5	14–16	20–23	25–30	32–35	38–45	48–54	58–64
Flow rate range (L/min)	0.34–11.02	0.6–19.59	0.94–30.62	1.06–52.99	1.88–94.2	2.94–147.19	4.82–241.15	7.54–376.8	11.78–588.75
Accuracy	±2.0%								
Repeatability	0.8%								
Measured pipe diameter	Φ12.7–Φ63								
Memory function	Accumulation of daily, monthly, and yearly flow rates available								
Analog output	4 to 20 mA, max load 600 Ω								
Communication interface	RS485, support Modbus communication protocol								
Power supply	24 VDC								
Keypad	Four buttons								
Display	OLED								
Unit	Supports metric units, Cubic Meters (m³), Liters (L), USA Gallons (GAL), optional per hour (hour), per minute (min), factory default units are m³/h								
Accumulator	6-Digit flow totalizer								
Suitable pipe material	Stainless steel, copper pipe, carbon steel, plastic pipe (PVC, PVDF, PPR, etc.), PFA, silicone								
Housing material	Aluminum								
Ambient temperature	0 to 50 °C (32 to 122 °F)								
Media temperature	0 to 50 °C (32 to 122 °F)								
Ambient humidity	0 to 90% RH (no condensation)								
Protection class	IP54								
Cable length (m)	2								
Weight (kg)	0.89			0.81	0.80	0.89	0.97	1.26	

¹ If alarm function is required, the switching output NPN type can be customized, please contact SENPUM sales.
For example, the FT-Q8 NPN switching output with alarm function model is: FT-Q8N

Fiber Optic Sensors

Photoelectric Sensors

Color Sensors

Laser Sensors

Proximity Sensors

Precision Contact
Sensors

Area Sensors/
Safety Light Curtains

Laser Scanners

Digital Contact Sensors

Laser Displacement
Sensors

Laser Micrometers

Confocal Displacement
Sensors

Barcode Readers

AI Vision Sensors

RFID

Infrared Temperature
Sensors

Pressure Sensors

Flow Sensors

Magnetic Sensors

Ultrasonic Sensors

Magnetic Scales

Static Eliminators

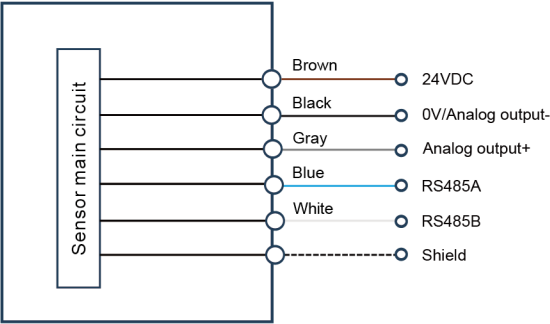




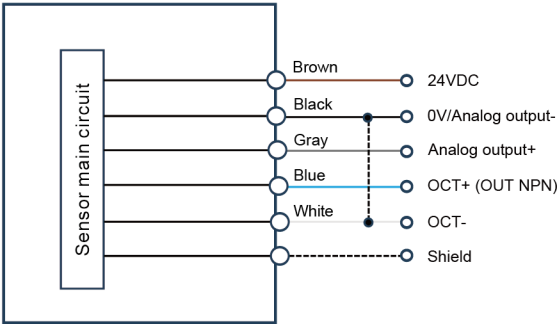
FT-Q
 Clamp-Mounted Flow Sensor

Circuit Diagrams

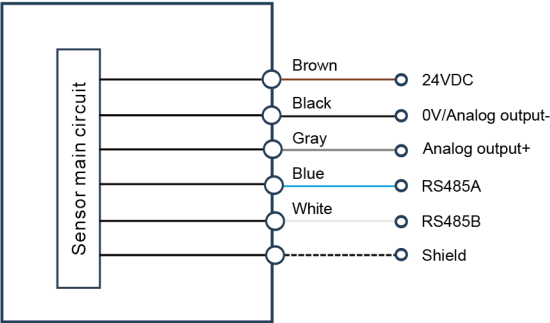
FT-Q* Analog current + RS485:



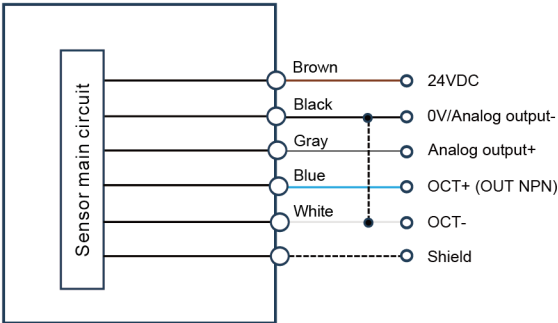
FT-Q*N Analog current + NPN switching output:



FT-X* Analog current + RS485:



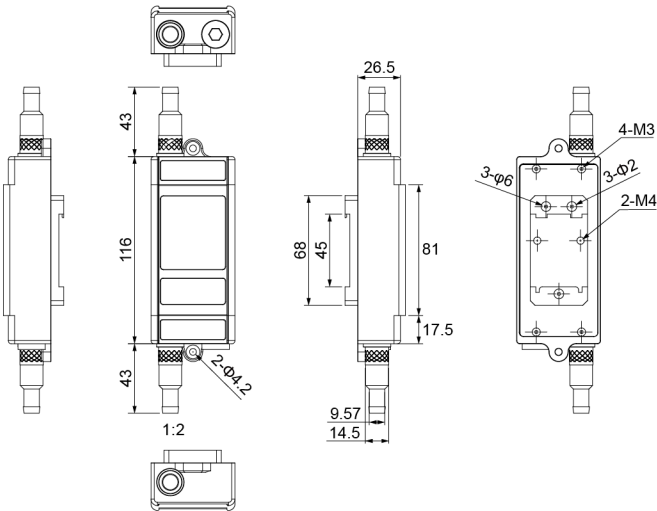
FT-X*N Analog current + NPN switching output:



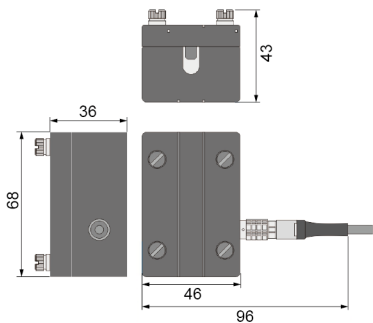
Dimensions

Unit: mm

Main Unit
 FT-X6 / FT-X8



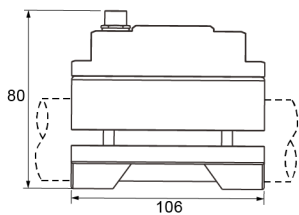
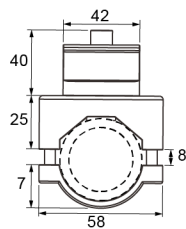
Sensor



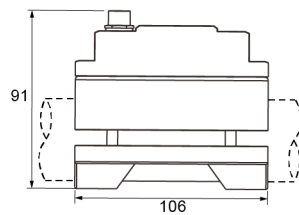
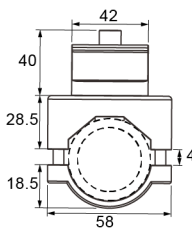
Dimensions

Unit: mm

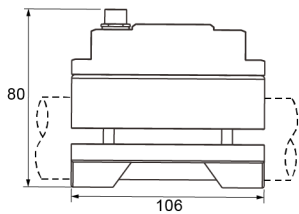
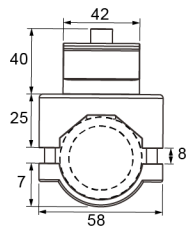
FT-Q6



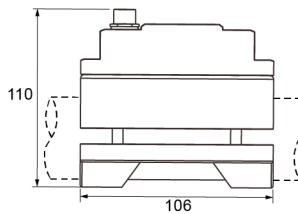
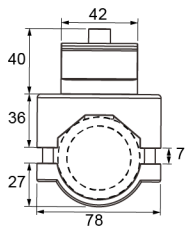
FT-Q25



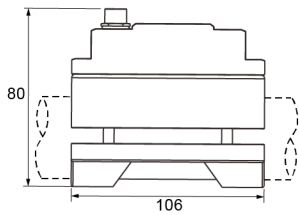
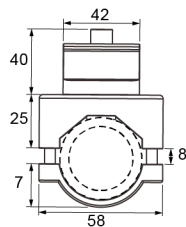
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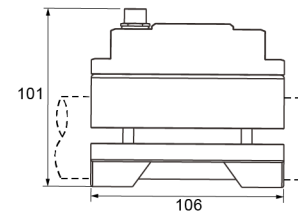
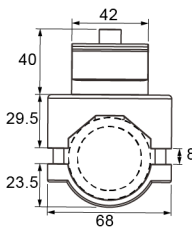
FT-Q40



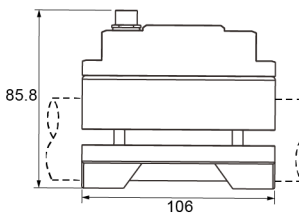
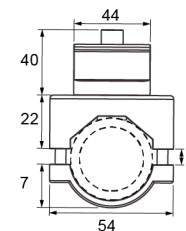
FT-Q10



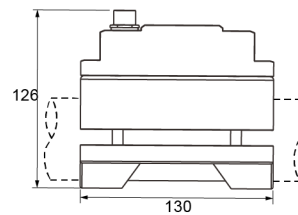
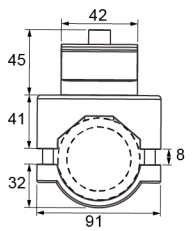
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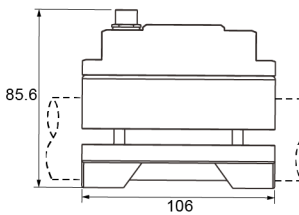
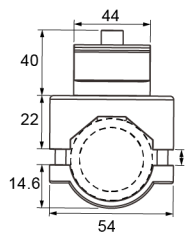
FT-Q15



FT-Q50



FT-Q20



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