

CLAMP ON TYPE FLOW METER

ST SERIES



DESCRIPTION

The ST is very unique in its structural design. It uses a circular magnetic steel to achieve automatic connection during installation. It takes only 2-3 minutes to complete the whole process from installation to measurement. It also adopts the current popular OLED display, which makes it easy to read in low light conditions.

APPLICATIONS

- Various acids, alcohols, chemical solvents, alcohol, beverage water, Coca-Cola water, etc.
- ST is widely used in the production process flow measurement and monitoring.

FEATURES

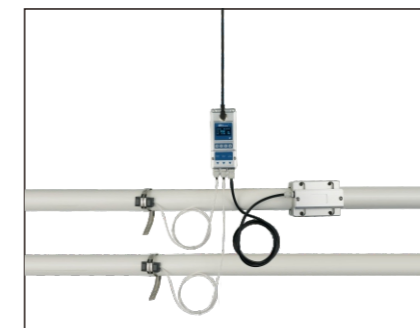
- With the world's most advanced time measurement chip (time resolution of SOPs), Has developed a new generation of stable ST series "Easy Test™" flow meters
- The flow meter is stuck on the outside of the tube, no additional pipe changes are required
- No expertise required, installation and measurement can be done according to the operating instructions
- No moving parts, no pressure loss, can be installed without stopping production

TECHNICAL DATA

Model	ST
Flow Range	0.1 m/s~5.0 m/s
Accuracy	±2.0%
Repeatability	0.8%
Pipe Size	Φ6.35 - Φ90
Data Storage	Daily, monthly, and Annual. Flow Totalizer
Analog Output	4~20mA, Maximum load: 600Ω
Alarm Output	OCT, Upper and lower limit alarm function (optional)
Communication	RS485, support Mod bus communication protocol
Power Supply	24 VDC
Cable Length	2.0m
Keypad	Four light touch buttons
Screen	OLED 128*64 display screen
Units	Metric and imperial units are available, Cubic Meters(m³), Liters(L), USA Gallons(GAL)/hour, /min, Default unit setting: m³/h
Totalizer	Six bit digit
Piper Material	Stainless steel pipe, carbon steel pipe, copper pipe, plastic pipe
Case Material	Aluminum alloy
Environment Temp.	0°C~50°C(32° F~122° F)
Medium Temp.	0°C~50°C(32° F~122° F)
Environment Humidity	0-95% relative humidity, without condensation
IP Grade	IP54



Remote Type



Heat Meter



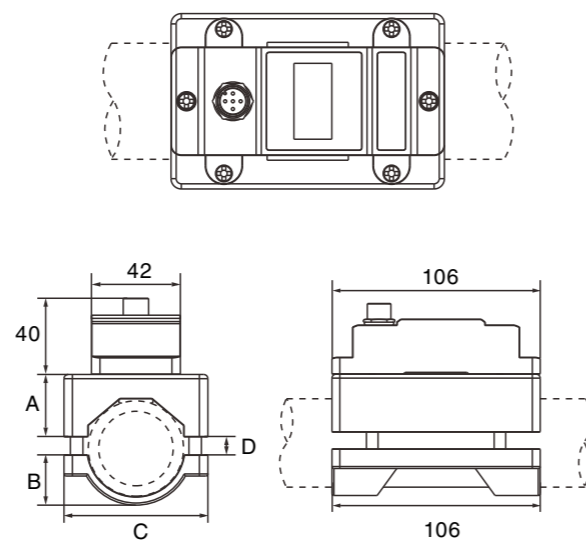
Compact Type

PIPING SPECIFICATION(COMPACT TYPE)

Model	ST-φ 6.35	ST-φ 9.53	ST-φ 12.7	ST-φ 15	ST-φ 20	ST-φ 25
OD	6.35mm	9.53mm	12.7mm	15mm	20mm	25mm
DN	DN4	DN6	DN8	DN10	DN15	DN20
NB	–	1/4"	–	3/8"	1/2"	3/4"
Min pipe	–	9.5mm	12mm	14.5mm	16.5mm	25mm
Max pipe	–	10.4mm	13.1mm	15.4mm	23mm	28mm
Model	ST-φ 32	ST-φ 40	ST-φ 50	ST-φ 63	ST-φ 75	ST-φ 90
OD	32mm	40mm	50mm	63mm	75mm	90mm
DN	DN25	DN32	DN40	DN50	DN65	DN80
NB	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Min Pipe	32mm	38mm	48mm	58mm	72mm	80mm
Max Pipe	35mm	45mm	54mm	64mm	78mm	92mm

TECHNICAL DRAWINGS(COMPACT TYPE)

Model	A(mm)	B(mm)	C(mm)	D(mm)	
				Min	Max
ST-φ 6.35	–	–	–	–	–
ST-φ 9.53	–	25.5	42	0/φ 9.53	1/φ 10.4
ST-φ 12.7	–	26.8	42	0/φ 12	1/φ 13.1
ST-φ 15	–	29	42	0/φ 14.5	1/φ 15.4
ST-φ 20	25	10	58	1/φ 16.5	7.5/φ 23
ST-φ 25	25	15	58	1/φ 25	4/φ 28
ST-φ 32	28.5	18.5	58	1/φ 32	4/φ 35
ST-φ 40	29.5	24	68	1/φ 38	9/φ 45
ST-φ 50	36	27	78	1/φ 48	7/φ 54
ST-φ 63	41	32	91	1.5/φ 58	8.5/φ 64
ST-φ 75	46.5	40	105	1/φ 72	7/φ 78
ST-φ 90	51.5	43	119	1/φ 80	13/φ 92

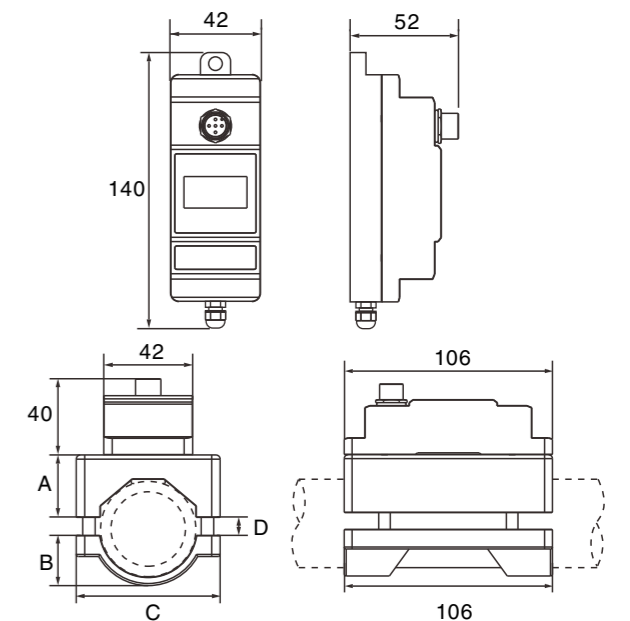


PIPING SPECIFICATION(REMOTE TYPE)

Model	ST-φ 6.35	ST-φ 9.53	ST-φ 12.7	ST-φ 15	ST-φ 20	ST-φ 25
OD	φ 6.35	φ 9.53	φ 12.7	φ 15	φ 20	φ 25
ID	4mm	8mm	–	10mm	15mm	20mm
DN	DN4	DN6	DN8	DN10	DN15	DN20
NB	–	1/4"	–	3/8"	1/2"	3/4"
Model	ST-φ 32	ST-φ 40	ST-φ 50	ST-φ 63	ST-φ 75	ST-φ 90
OD	φ 32	φ 40	φ 50	φ 63	φ 75	φ 90
ID	25mm	32mm	40mm	50mm	65mm	80mm
DN	DN25	DN32	DN40	DN50	DN65	DN80
NB	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"

TECHNICAL DRAWINGS(REMOTE TYPE)

Model	A(mm)	B(mm)	C(mm)	D(mm)	
				Min	Max
ST-φ 6.35	–	–	–	–	–
ST-φ 9.53	25	10	58	1.5/φ 9.53	6/φ 14.03
ST-φ 12.7	25	10	58	1/φ 12.7	6/φ 17.7
ST-φ 15	25	10	58	1/φ 12.7	6/φ 17.7
ST-φ 20	25	10	58	1/φ 16.5	7.5/φ 23
ST-φ 25	25	15	58	1/φ 25	4/φ 28
ST-φ 32	28.5	18.5	58	1/φ 32	4/φ 35
ST-φ 40	29.5	24	68	1/φ 38	9/φ 45
ST-φ 50	36	27	78	1/φ 48	7/φ 54
ST-φ 63	41	32	91	1.5/φ 58	8.5/φ 64
ST-φ 75	46.5	40	105	1/φ 72	7/φ 78
ST-φ 90	51.5	43	119	1/φ 80	13/φ 92



INSTALLATION STEPS

01 Clean the Tube



Make sure no dirt, paint, or other stains on the surface of the tube.

02 Install the Bracket



Align flow meter to the pipe position, Install screw on top part of the bracket, the bottom part of the bracket will automatically connect with the top part.

03 Install ST



Take the cover off the sensor, put the flow meter into Upper bracket, and tighten two M4 screws.

04 Connect the Cable



Take out the cable, connect it to the socket, and tighten up.

05 Run the ST

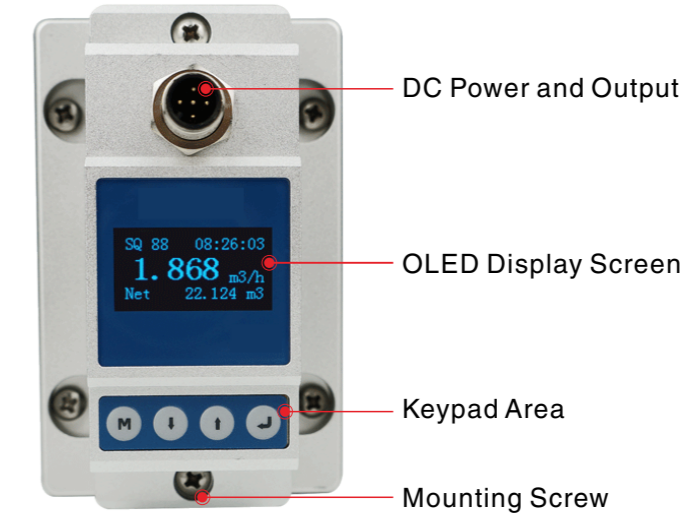


Please refer to the manual for cable connection; Power on and see if the Sq \geq 50 which indicates that the measurement has been stable.

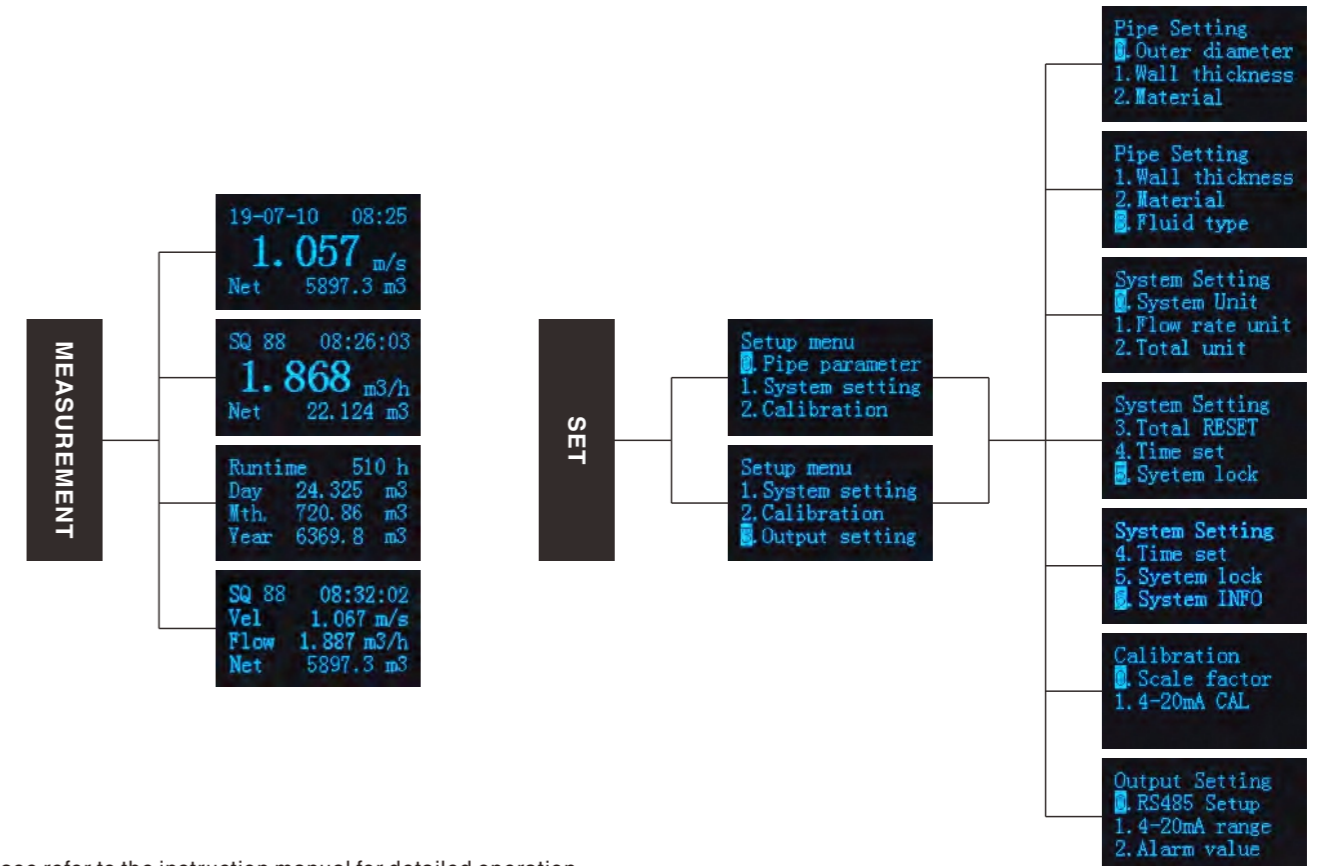
ST SETTING

Special instructions:

ST, which is designed for different pipe diameter and materials, will be set in standard setting before it leaves the factory. There is no need to reset.



DISPLAY MENU



Please refer to the instruction manual for detailed operation