



Features:

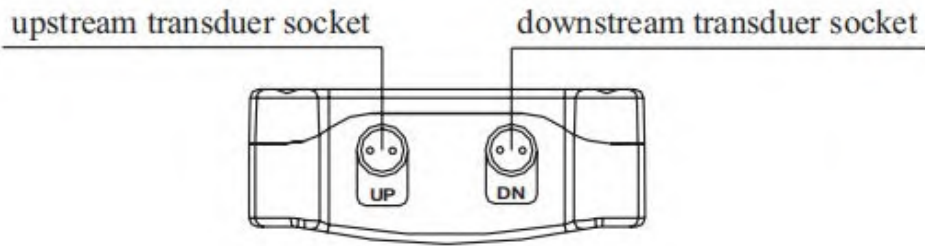
- LCD display the instantaneous flow rate.
- Built-in data logger and can storage 2000 lines of data.
- Convenient use, fast testing and less maintenance.
- Applicable for various pure liquids including water, lubricants, gasoline.

Specification:

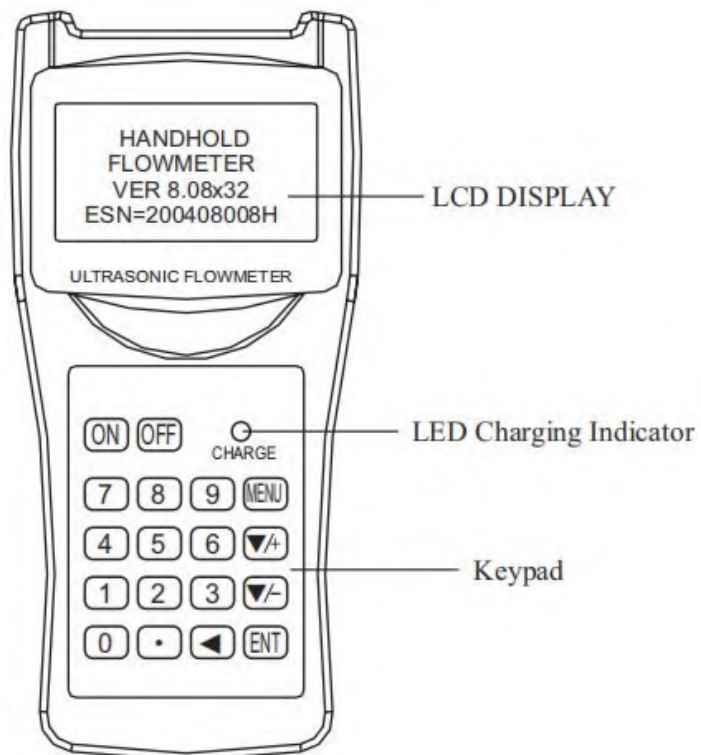
Model	ATO-SPE-2000H
Accuracy	±1% of reading at flow rate >0.2 m/s
Linearity	0.50%
Repeatability	0.20%
Response Time	0-999 seconds, user-selectable
Velocity	0.2~32 m/s
Pipe Size	40 mm-1200 mm
Totalizer	7-digit totals for net, positive and negative flow respectively
Liquid Type	Virtually all liquids
Transducer (Optional)	Standard clamp-on transducers: small/medium/large; High-temperature clamp-on transducers: small/medium/large
Protection Grade	Transducer: IP67
Transducer Cable Length	Standard 5m x 2
Operating Temperature	Main unit: -30 °C~90 °C, Transducers: -30 °C~160 °C
Operating Humidity	Main unit: ≤85% RH
Power Supply	3 AAA built-in Ni-H batteries (Can work over 12 hours after a full charge), external charger with 100V-240V AC
Display	4 x 16 English letters
Signal Output	OCT output (6~1000 ms)
Data Logger	Built-in data logger, can store over 2000 lines of data
Housing Material	ABS
Main Unit Size	100x66x20 mm
Main Unit Weight	500g with batteries

Structure;

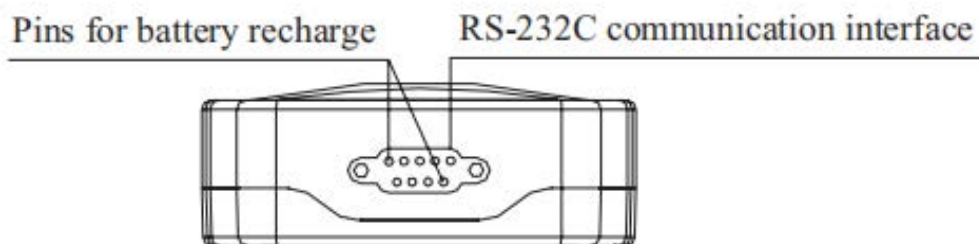
Top view:



Front View:



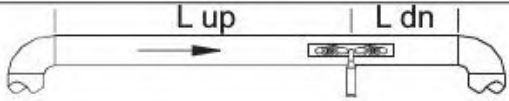
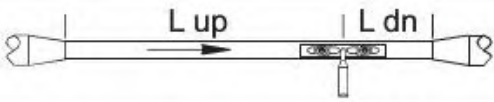
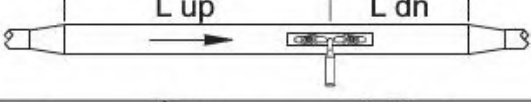
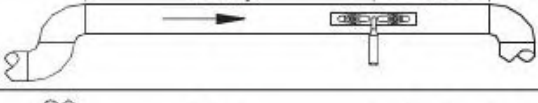
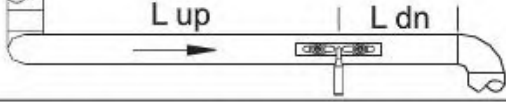
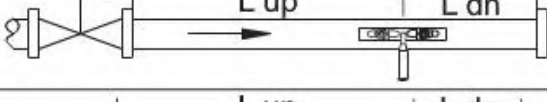

Bottom View:



Transducer Selection:

Transducer	Measuring Pipe Size Range	Temperature Range	Dimensions (mm)
Standard clamp-on transducer - Small	DN40-DN100	-30 °C~90 °C	45*25*32
Standard clamp-on transducer - Medium	DN50-DN700		64*39*44
Standard clamp-on transducer - Large	DN300-DN1200		97*54*33
High-temp clamp-on transducer - Small	DN40-DN100	-30 °C~160 °C	45*25*32
High-temp clamp-on transducer - Medium	DN50-DN700		64*39*44
High-temp clamp-on transducer - Large	DN300-DN1200		97*54*33

Transducer Installation Notice:

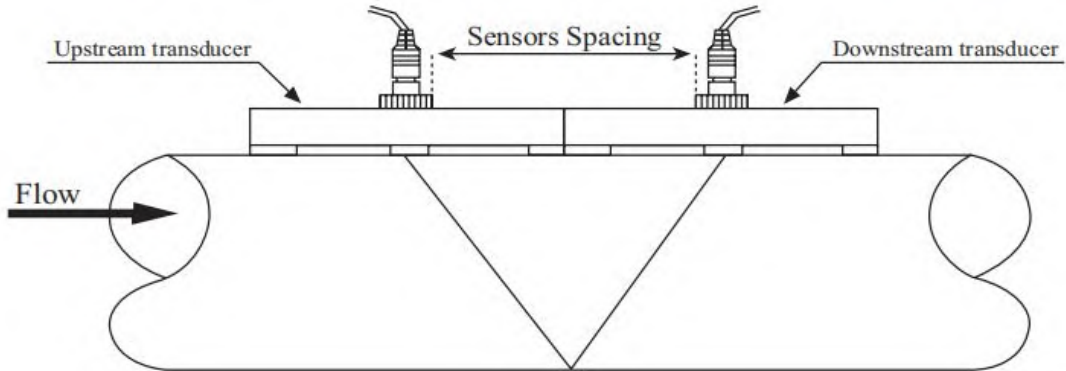
Piping Configuration and Transducer Position	Upstream Dimension	Downstream Dimension
	L up x Diameters	L dn x Diameters
	10D	5D
	10D	5D
	10D	5D
	12D	5D
	20D	5D
	20D	5D
	30D	5D

- The pipeline where the transducer is installed must have a long enough straight pipe section, of course, the longer the better, generally 10 times the pipe diameter upstream, 5 times the pipe diameter downstream, and 30 times the pipe diameter from the pump port. At the same time, ensure that the liquid in this section must be full.
- Make sure that the temperature range of the pipe under test is within the applicable range of the sensor, usually at room temperature.
- Take the corrosion or scaling of the pipeline into consideration. It is better to choose a newer pipeline for the measurement. If it is not available, subtract the corrosion from the pipe wall thickness or consider scaling as the pipe lining.

Transducer Installation Method:

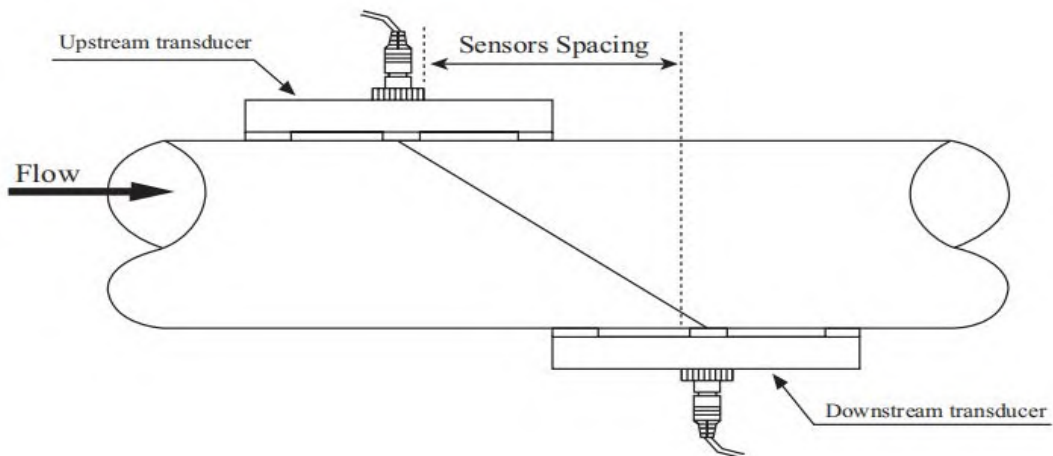
1. V-method Installation

It is the most widely used mode for daily measurement with pipe inner diameters ranging from 20 millimeter to 300 millimeter.



2. Z-method Installation

It is commonly used when the pipe diameter is between 300 millimeters and 500 millimeters.



3. W-method Installation

It is usually used on plastic pipes with a diameter from 10 millimeters to 100 millimeters.

