

SUNCENT

Suncent Technology Co., Ltd.



X8

Ultrasonic Flowmeter

Product Brochure



ULTRASONIC FLOWMETER X8

Widely used in chemicals, irrigation, industrial consumption, gas, water supply, water treatment, boiler, cleaning machine, HVAC systems....



X8 is an international high-end transit-time ultrasonic

- Fully field configurable
- Highest performance, extended functionality and effectiveness for large pipe diameter (up to DN5000)
- High zero stability, nearly drift free
- Improved very user-friendly menu
- Daily, monthly and yearly totalized flow rate
- Positive, negative and net flow totalizers (with user-selectable scale factors)
- Configurable pulse, analog and frequency outputs
- Digital communications: RS485, Modbus, BACnet (optional)

SPECIFICATION

Performance specifications

Flow range	0~±12 m/s (0~±40 ft/s)
Accuracy	±0.5%
Repeatability	0.2%
Linearity	±1.0%
Pipe size	25mm to 5000mm (1" to 200")

Function specifications

Outputs	Analog output: 4~20mA (max load 750) Pulse output: 0~9999Hz, OCT, (min. and max. frequency is adjustable) Relay output: SPST, max 1Hz, (1A@125VAC or 2A@30VDC)
Communication	Rs485, Modbus, BACnet (optional)
Power supply	12V to 36V DC
Keypad	4 key with tactile action
Display	2.8" TFT LCD, 320*240px
Temperature	Transmitter: -40°C ~ 60°C (-40°F ~ 140°F) Standard Transducer: -40°C ~ 80°C (-40°F ~ 176°F)
Humidity	UP to 95% RH, non-condensing

Physical specifications

Transmitter	Aluminium alloy CNC
Transducer	Encapsulated design, double-shielded transducer cable. Standard cable length: 10m (33ft)
Weight	Transmitter: approximately 1.2kg (2.7 lb) Standard transducer: approximately 1.5kg (3.3 lb)

DISPLAY MENUS

LARGE SCREEN DISPLAY, CLEAR AT A GLANCE



SENSOR TYPE

Clamp-on transducers



No contact with liquids,
Can measure various liquids,
no need to stop production

Because it is an external clamp method that measures outside the pipe, it is suitable for manufacturers of medicines, beverages, and drinking water that cannot install flow sensors due to concerns about contamination.

Wetted transducers



Higher stability,
Can be installed under pressure online,
no need to stop production

It can be installed on-line under pressure, and there is no need to stop the production pipeline during construction, and there is no need to disconnect the pipe welding flange, which saves the unit time and expense of use.

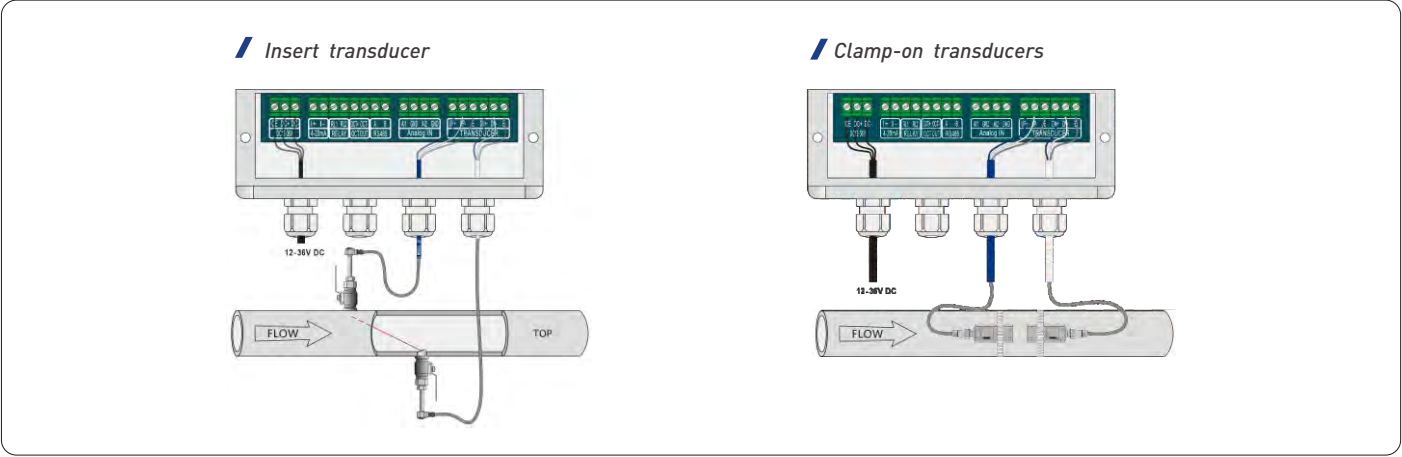
Pipe section type



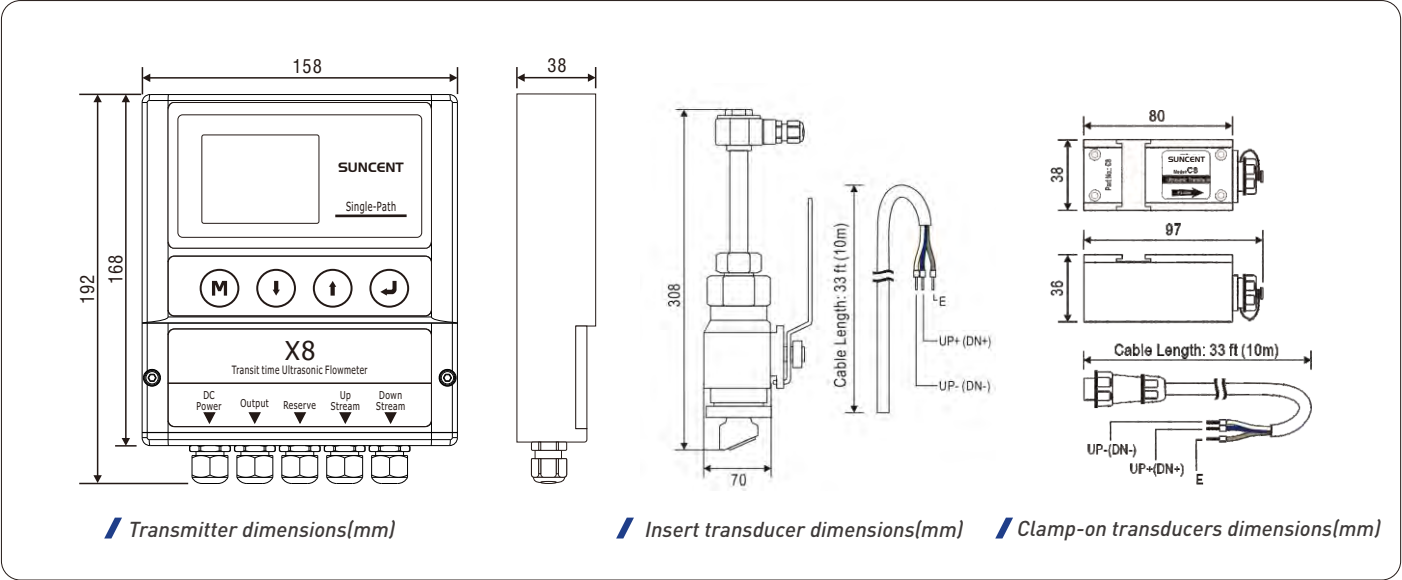
Simple installation and high stability,
does not need to set pipe diameter,
wall thickness, etc.

The pipe segment sensor does not need to set parameters such as pipe diameter and wall thickness, nor does it need to adjust the position of the sensor. After installation, it can be used after simple settings.

WIRING DIAGRAM



DIMENSIONS



ORDERING INFORMATION

Code	Input and output
1	4-20mA, OCT pulse output, relay output, RS-485
Code	Transmitter enclosure area classification
1	IP54, Aluminium alloy CNC
2	Customer specific requirements
Code	Type of transducers
W8	Insert transducer. Operating temperature: -40°C ~+80°C (-40°F~176°F)
C8	Clamp-on transducers. Operating temperature: -40°C ~+80°C (-40°F~176°F)
Code	Transducer cable length
033	Cable length 10m (33 ft)
XXX	Extended length, up to 305m (1000 ft), per 5m (16 ft) is a lengthen unit

PRODUCT LINES



·Dedicated Ultrasonic Flowmeter X8

Flow range	Accuracy	Pipe size
0-±12 m/s	±0.5%	25mm - 5000mm



·Portable Ultrasonic Flowmeter P8

Flow range	Accuracy	Pipe size
0-±12 m/s	±0.5%	25mm - 5000mm



·Multi-Path Ultrasonic Flowmeter D8

Flow range	Accuracy	Pipe size
0-±12 m/s	±0.5%	200mm - 5000mm



·Multi-Path Ultrasonic Energy Meter ED8

Flow range	Accuracy	Pipe size
0-±12 m/s	±0.5%	200mm - 5000mm



·Dedicated Ultrasonic Flowmeter X6

Flow range	Accuracy	Pipe size
0-±12 m/s	±1.0%	25mm - 2000mm



·Ultrasonic Energy Meter EX8

Flow range	Accuracy	Pipe size
0-±12 m/s	±0.5%	25mm - 5000mm



·Fixed Buckled Ultrasonic Energy Meter EX3

Flow range	Accuracy	Pipe size
0.1-5 m/s	±1.0%	DN15 - DN80



·Fixed Segmented Ultrasonic Flowmeter X2

Flow range	Accuracy	Pipe size
0.1-5m/s	±1.0%	¢20 - ¢63



·Fixed Buckled Ultrasonic Flowmeter X3

Flow range	Accuracy	Pipe size
0.1-5 m/s	±1.0%	¢6.35 - ¢90

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