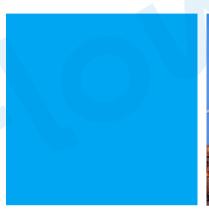
pFlow

Ultrasonic Flowmeter D118



















Excellence in Calibration

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About D118

D118 Ultrasonic Flowmeter is a state-of-the-art transit time ultrasonic flowmeter.

Designed using the latest digital technology and low-voltage broadband pulse transmission.

While principally designed for full-pipe clean liquid applications. The instrument is tolerant of liquids with small amounts of air bubbles or suspended solids found in most industrial environments.

Comparing with other traditional flowmeter or ultrasonic flowmeter, it has distinctive features such as high precision, high reliability, high capability and low cost, other features:

TVT technology designed.

Less hardware components, low voltage broadband pulse transmission, low consumption power.

Clear, user-friendly menu selections make flowmeter simple and convenient to use.

Daily, monthly and yearly totalized flow.

Parallel operation of positive, negative and net flow totalizes with scale factor (span) and 7 digit display, while the output of totalize pulse and frequency output are transmitted via relay and open collector.



Applications



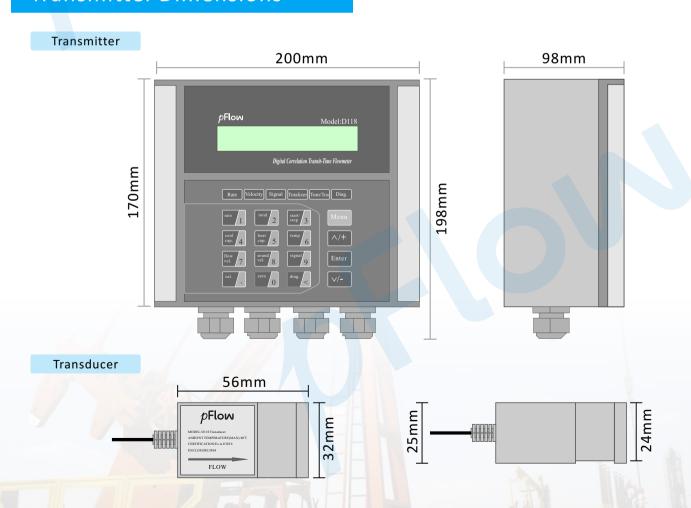
Specification

	Performance specifications	
Flow range	$\pm 0.03 \text{ft/s} \sim \pm 40 \text{ft/s} \ (\pm 0.01 \text{m/s} \sim \pm 12 \text{m/s})$	
Accuracy	±0.5% of measured value (for ±1.5ft/s~±40ft/s)	
Repeatability	0.15% of measured value	
Linerarity	±0.5%	
Pipe size	1" to 200"(25mm to 5000mm)	
Function specifications		
Outputs	Analog output: 4^2 0mA, max load 750Ω . Pulse output: 0^9 999Hz, OCT, (min. and max. frequency is adjustable) Realy output: SPST, max 1Hz,(1A@125VAC or 2A@30VDC)	
Communication	RS232&RS485	
SD Card	Standard SD card Max record:512days Record time interval	
Power supply	90 to 245 VAC, 48 to 63 Hz. Or 10 to 36VDC	
Keypad	22 keys with tactile action	
Display	40 character, 2 line (20X2) lattice alphanumeric, back lit LCD.	
Temperature	Transmitter:- $40^{\circ}F^{\sim}140^{\circ}F(-40^{\circ}C^{\sim}60^{\circ}C)$ Transducer:- $40^{\circ}F^{\sim}176^{\circ}F(-40^{\circ}C^{\sim}80^{\circ}C, standard)$	
Humidity	Up to 99% RH,non-condensing	
Physical specifications Physical specifications		
Transmitter	NEMA 4X (IP65), Die-cast aluminum	
Transducer	Encapsulated design double-shielded transducer cable Standard/maximum cable length:30ft/1000ft(9m/305m)	
Weight	Transmitter:approximately 2.15kg; Transducer:approximately 0.9kg.	

Wiring Diagram

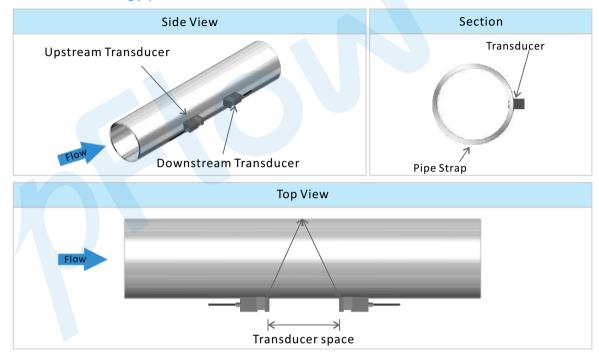


Transmitter Dimensions

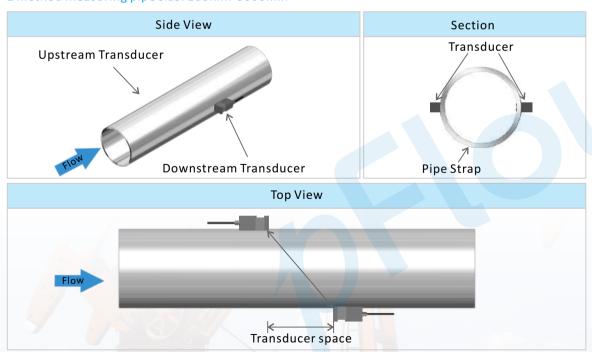


Transducer Installation Methods

V method measuring pipe size: 25mm-400mm



Z method measuring pipe size: 100mm-3000mm



Installation Site Selection

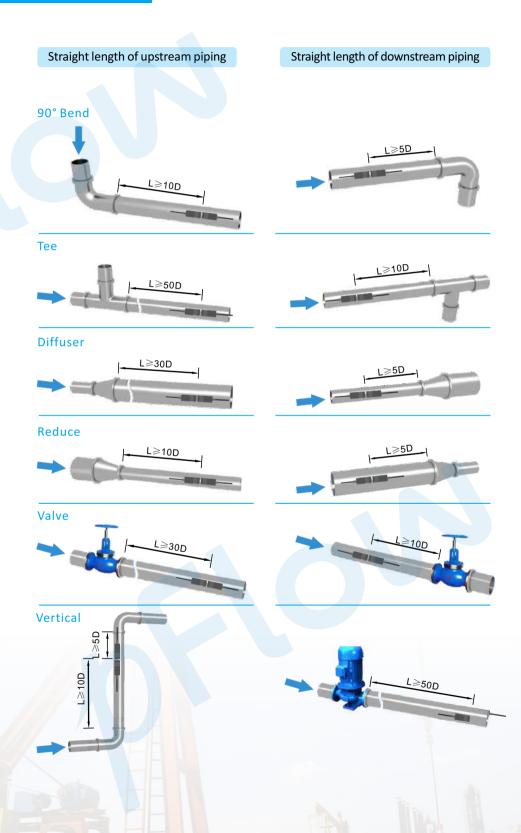
When selecting a measurement site, it is important to select an area where the fluid flow profile is fully developed to guarantee a highly accurate measurement. Use the following guidelines to select a proper installation site:

Choose a section of pipe that is always full of liquid, such as a vertical pipe with flow in the upward direction or a full horizontal pipe.

Ensure enough straight pipe length at least equal to the figure shown below for the upstream and downstream transducers installation.

Ensure that the pipe surface temperature at the measuring point is within the transducer temperature limits.

Consider the inside condition of the pipe carefully. If possible, select a section of pipe where the inside is free of excessive corrosion or scaling.



Ordering Information

Description			
D118	Digital Correlation Transit Time Flowmeter Installation method: Wall mount 2G SD card high memory data logging, maximum memorize 512 days data. Flow Range: 0.03 ~ ±40ft/s (0.01~ ±12 m/s) Accuracy: ±0.5% of measured value Repeatability: 0.15% Pipe Size Range: 1"~200"(25mm ~ 5000mm) Keyboard:16 (4×4) touch keys Display: 20*2, alphanumeric, backlit LCD Power supply: 90-250VAC, 48-63 Hz or 10-36V DC Transmitter enclosure: IP65, die-cast aluminum machined enclosure Output: 4~20mADC, OCT pulse output, relay output Communication: RS-232 / RS-485 terminal Modbus Protocol		
Output			
1	4-20mA, OCT pulse output, relay output, RS-232 / RS-485		
2	4-20mA, OCT pulse output, relay output, RS-232 / RS-485, RTD temperature input		
Transmitter enclosure area classification			
1	IP65, die-cast aluminum machined enclosure		
2	Explosion-proof enclosure , Ex dia II BT4		
Type of transducers			
C010	Clamp on transducer, Operating temperature:-40 $^{\circ}F$ \sim +176 $^{\circ}F$ (-40 $^{\circ}C$ \sim +80 $^{\circ}C$)		
CH020	High temperature Clamp on transducer:32°F \sim +302°F(0°C \sim +150°C)		
W210	Insertion transducer, Operating temperature:-40°F \sim +176°F(-40°C \sim +80°C)		
WH101	High temperature Insertion transducer:32 $^{\circ}F \sim$ +302 $^{\circ}F (0^{\circ}C \sim$ +150 $^{\circ}C)$		
Transducer Cable Length			
030	Standard 30ft (9m)		
xxx	Maximum lengthen to 305m(1000ft), per 5m is a lengthen unit.		
Type of Temperature sensor			
PT1000	PT1000 Temperature sensor		
Standard Mod	Standard Model: D118-1-1-C010-030		

Description: Standard enclosure with Clamp-on transducers, RS232/RS485, 9m cable.

Product Line

D116 Dedicated Ultrasonic Flowmeter



Accuracy:

±1%

Flow range:

0.03 ~±16ft/s

Pipe Size Range:

1"~48"

P116 Portable Ultrasonic Flowmeter



Accuracy:

±1%

Flow range:

0.03 ~ ±40ft/s

Pipe Size Range:

1"~48"

D118 Dedicated Ultrasonic Flowmeter



Accuracy:

±0.5%

Flow range:

 $0.03 \sim \pm 40 ft/s$

Pipe Size Range:

1"~200"

P118i Portable Ultrasonic Flowmeter



Accuracy:

±0.5%

Flow range:

0.03 ~ ±40ft/s

Pipe Size Range:

0.6"~240"

D118i Dedicated Ultrasonic Flowmeter



Accuracy:

±0.5%

Flow range:

0.03~±40ft/s

Pipe Size Range:

1''~200''

Application

Prefect performance in single liquid medium. Eg:Water,Pure water,Beer,Oil, etc.

Remark: The above mode choose doesn't including the spool piece, it is for customization.

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