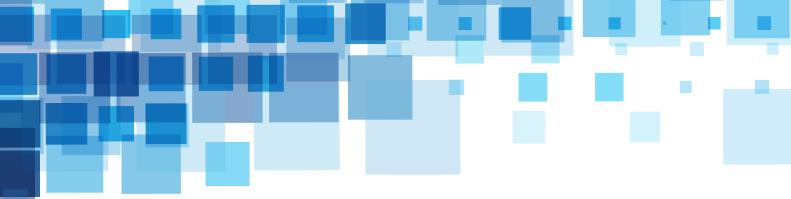




Wall Mount Ultrasonic Flowmeter D116

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D116 Series Ultrasonic Flowmeter is a state-of-the-art universal transit-time flowmeter designed using FPGA chip and low-voltage broadband pulse transmission.

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

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.









ABOUT D116 – SPECIFICATION

PERFORMANCE SPECIFICATIONS

Flow range	±0.03ft/s~±16ft/s (±0.01m/s~±5m/s)
Accuracy	±1.0% of measured value
Pipe size	Clamp-on:1"~48"(25mm~1200mm)
Fluid	Water.
Pipe material	Carbon steel, stainless steel, PVC.

FUNCTION SPECIFICATIONS

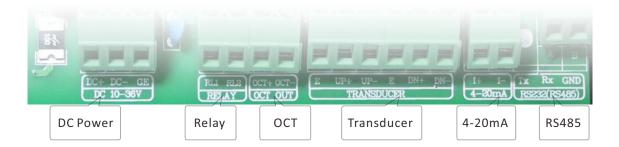
Outputs	OCT Pulse output:0~5000Hz. Analog output:4~20mA,max load 750 Ω .
Communication interface	RS485 MODBUS
Powersupply	10~36VDC/1A
Keypad	16(4 $ imes$ 4)key with tactile action
Display	20 $ imes$ 2 lattice alphanumeric, back lit LCD.
Temperature	Transmitter:14°F~122°F(-10°C~50°C) Transducer:32°F~176°F(0°C~80°C)
Humidity	Up to 99% RH,non-condensing

PHYSICAL SPECIFICATIONS

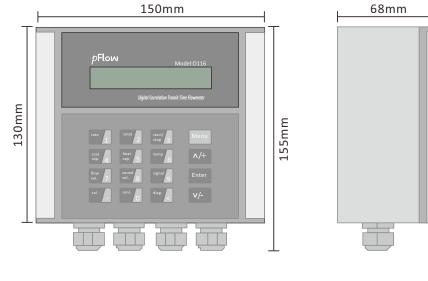
Transmitter	PC/ABS,IP65.	PC/ABS,IP65.		
Transducer	Encapsulated	Encapsulated design,IP68.		
Transducer cable	Standard cab	Standard cable length:30ft(9m).		
Weight		approximately 0.7kg; pproximately 0.4kg		
Transmitter	Transducer	Pipe strips	Coupling compound	



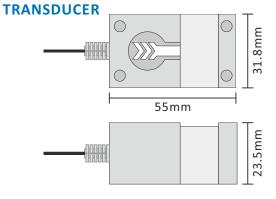
WIRING DIAGRAM



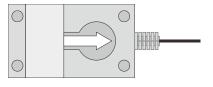
TRANSMITTER DIMENSIONS



Upstream Transducer



Downstream Transducer



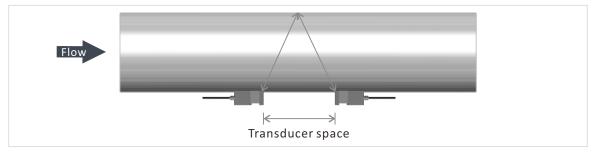


ABOUT D116 TRANSDUCER INSTALLATION METHODS

V METHOD MEASURING PIPE SIZE : 25MM-400MM



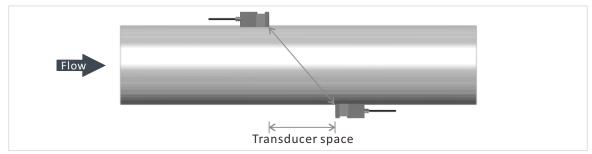
Top View



Z METHOD MEASURING PIPE SIZE: 100MM-3000MM







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.

STRAIGHT LENGTH OF UPSTREAM PIPING

90° Bend

Diffuser

Reduce





L≥30D

STRAIGHT LENGTH OF

DOWNSTREAM PIPING



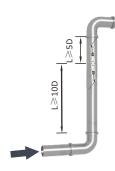








Valve





DESCRIPTION

MODEL

D116	Digital Correlation Transit Time Flowmeter Installation method:wall mount Transmitter: Flow Range:±0.03ft/s ~ ±16ft/s (±0.01m/s ~ ±5m/s) Accuracy: ±1.0% of measured value Repeatability: 0.3% Pipe Size Range:1"~48" (25mm ~ 1200mm) Keyboard:16 (4×4) touch keys Display:20×2,alphanumeric,backlit LCD Power supply:10-36V DC@1Amax Transmitter enclosure:IP65,ABS/PC enclosure Temperature:-20°F~50°F Output: OCT pulse output 0-10KHz, Relay output, 4-20mA optional Communication: RS232, Modbus Protocol Temperature: -40°F~+140°F (-40°C~60°C)
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CODE	Ουτρυτ	
3	OCT output, Relay output, RS232, 4-20mA output	
4	OCT output, Relay output, RS485, 4-20mA output	
7	OCT output, Relay output, RS232, 4-20mA output, RTD input	
8	OCT output, Relay output, RS485, 4-20mA output, RTD input	
CODE	TRANSMITTER ENCLOSURE AREA CLASSIFICATION	
CP037	Clamp on transducer, Operating temperature:32°F~+140°F (0°C~+60°C)	
W210	Insertion transducer, Operating temperature:-40 $^\circ\mathrm{F}$ ~+176 $^\circ\mathrm{F}$ (-40 $^\circ\mathrm{C}$ ~+80 $^\circ\mathrm{C}$)	
CODE	TRANSDUCER CABLE LENGTH	
030	Standard 30ft (9m)	
ххх	Maximum lengthen to 305m(1000ft), per 5m is a lengthen unit.	
CODE	TYPE OF TEMPERATURE SENSOR	
PT1000	PT1000 Temperature sensor	

Standard Model: D116-4-CP037-030 Description: standard flowmeter with Clamp-on transducers, OCT pulse output, Relay output, RS485, 9m cable.

Gentos Measurement & Control Co., Ltd.

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