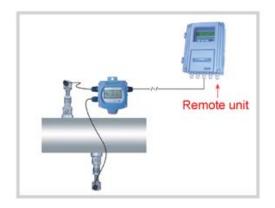


EU-106 Ultrasonic Flow Transmitter

EU-106 Ultrasonic Flow Transmitter is a fixed mounted flow meter, can work alone without a LCD and Keypad, and can modify the parameters from the **Remote Unit**, with better accuracy and stability. Their electronic enclosures are rated as IP68, so this products could be installed below the water, then there will be no limited for the installed place.

The ultrasonic flow meter works with Ultrasonic Technology and Measures by Principle of time difference. There is a pair of ultrasonic vibrator and receiver in the exterior of pipe emitting in two directions and both face to face. The light vibrator will emit ultrasonic signals down stream and reversed stream. Measuring the time difference of the two directions transmission, you will get the flow rate of the fluid; then input the diameter of pipe, you will get the flow.

Linearity	0.42%
Repeatability	0.17%
Accuracy	Normally ±1.5% of reading at rates>0.2mps
Response Time	0-999 seconds, user-configurable
Pipe Size	1/2" ~ 240" (DN15mm - DN6,000mm)*
Pipe Material	All metals, most plastics, lined pipes
Units	English (U.S.) or metric
Liquid Types	Virtually all liquids and liquids with minor solids (<10,000ppm). Full pipes
Digital Interface	Relay/OCT/RS-485/4~20mA/ 0~20mA output.
Power Supply	Li-Battery or 24VDC







Clamp-On Transducer

A pair of clamp-on transducer to measure the flow from outside of a pipe, there is no pressure drop, no moving parts, no leaks and no contamination. The installation is very simple and no special skills or tools are required.











Standard S1 DN15~DN100

Standard M1 DN50~DN700

Standard L1 DN300~DN6000

High-Temperature \$1H DN15~DN100

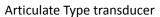
High-Temperature M1H DN50~DN700

Technical parameters	S1-ype	M1-type	L1-type	S1H-type	M1H-type		
Pipe size(mm)	DN15-100	DN50-700	DN300-6000	DN15-100	DN50-700		
Pipe size(inch)	(1/2" ~4")	(2" ~28")	(1/2" ~4")	(1/2" ~4")	(2" ~28")		
Material		ABS		ABS Special high-temperature materials			•
Frequency			1MHZ				
Installation method	V(N、W)	V、Z	Z	V(N、W)	V、Z		
calibration		Calib	rate with the mair	n unit			
magnetism	Mag	Magnetic		No magnetic			
Application of temperature	32°F∼158°F (0°C∼70°C)		32°F∼320°F(0°C∼160°C)				
Protection class	IP68(can work in water, and water depth≤3 meter)						
Dimension(mm)	45×30×30	60×45×45	80×70×55	90×85×24	90×82×29		
weight (g)	75	250	650	94	150		
Liquid types	Water,sea water.waste water,chemical liquids,oil,crude oil,alcohol,beer,etc.						
Suspension concentration	≤20000ppm,may contain very small amount of air bubbles.						
Pipe material	All metals, most plastics, fiber glass, etc,						
Dedicated shielded	Shielded transducer cable,can be extended to 500 meter×2, contact the manufacturer						
transducer cable	for longer cable requirement.						

Flow-Cell Transducer

This Transducer is a flow-cell (or spool-piece), where a pair of ultrasonic sensors have already been built in. The flow cell transducer is accurately calibrated in the factory. When it is put in line with the testing pipe, the accuracy normally does not change with high accuracy, good stability, easy to use, etc.







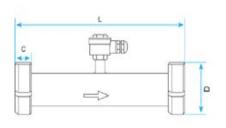
PI-type transducer

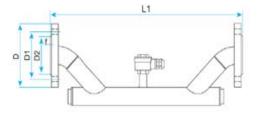


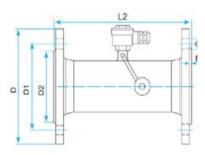
Standard-pipe transducer



Technical Parameters	Articulate type Transducer	PI-type Transducer	Standard pipe Transducer	
Main unit	Integrative type	,wall-mount,	Integrative type ,wall-mount,	
iviairi uriit	transmission	,module	transmission ,module,water meter	
Pipe size	DN25-DN80mm	DN15-DN40	DN50-DN1000	
Material	stainless	steel	carbon steel(stainless steel is optional)	
Frequency		1MHZ		
Connection	articulate type		flange type	
Application of	-40°C-160°C			
temperature				
Calibration	Calibrate with the main unit			
Protection class	IP68(can work in water, and water depth≤3 meter)			
Dimension	refer to the following table			
Nominal pressure	refer to the following table			
Liquid types	Water,sea water.waste water,chemical liquids,oil,crude oil,alcohol,beer,etc.			
Suspension	≤2000ppm,may contain very small amount of air bubbles.			
concentration				
Dedicated shielded	shielded transducer cable, can be extended to 500 meter×2, contact the manufacturer for longer			
transducer cable	cable requirement.			







Articulate Type dimension

PI –type dimension

Standard-pipe dimension

Articulate Type transducer

Nominal Diameter(mm)	Rated Pressure	Articulate Dimension				
Nominai Diameter(mm)	(MPa)	L	Н	D	С	
25	4.0	300	282	51	19	
40		300	300	74	23	
50		300	310	84	24	
65		350	330	100	28	
80		400	345	114	30	
100		450	365	128	31	



PI -type Dimension / Standard-pipe Dimension

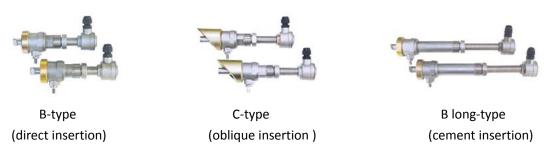
Nominal Rated diameter(mm) pressure(mm		PI –type dimension	Standard-pipe dimension	Flange dimension(mm)					
		L1	L2	D	D1	D2	f	N-Ф	Flange thickness
15		320		95	65	46	2	14×4	14
20		360		105	75	56	2	14×4	16
25	2.5	390		115	85	65	3	14×4	16
32		450		140	100	76	3	18×4	18
40		500		150	110	84	3	18×4	18
50			200	165	125	99	3	18×4	20
65			200	185	145	118	3	18×4	20
80			225	200	160	132	3	18×8	20
100			250	220	180	156	3	18×8	22
125			250	250	210	184	3	18×8	22
150	1.5		300	285	240	211	3	22×8	24
200	1.6		350	340	295	266	3	22×12	24
250	=		450	405	355	319	3	26×12	26
300			500	460	410	370	4	26×12	28
350			550	520	470	429	4	26×12	30
400			600	580	525	480	4	26×16	32
450			700	640	585	548	4	30×20	34
500	1.0		800	670	620	585	4	25×20	32
600	1.0		1000	780	725	685	5	30×20	36
700			1100	860	810	775	5	24×25	32
800			1200	975	920	880	5	24×30	32
900	0.6		1300	1075	1020	980	5	24×30	34
1000			1400	1175	1120	1080	5	28×30	36



Insertion Wetted Transducer

A pair of insertion-type transducers are inserted into the pipe wall to interrogate the flow in the pipe. Since the transducers do not extrude into the flow, they do not generate any disturbance or cause any pressure drop. There is no moving parts to wear out.

If the pipe material is carbon steel or stainless steel can be installed directly welding, but if the pipe material is cast iron, FRP,PVC or cement please contact with the manufacturer to order the dedicated pipe hoop. To prevent leak water please give the exact outside diameter or perimeter to the manufacturer.



			-			
Technical	B-type insertion wetted	C-type insertion wetted	cement insertion wetted			
parameters:	transducer(direct insertion)	ransducer(oblique insertion)	transducer			
Pipe size	More than DN80mm					
material	Ball valve and transducer pole's r (stainless steel is optional)	naterial: stainless steel, Valve bas	e's material is carbon steel			
Frequency	1MHZ					
Pipe material	All metals, most plastics, fiber glass, e	etc,				
Installation method	Z method					
Application of temperature	-40℃-160℃					
bore Size	φ19mm (please use the manufacture's dedicated tools to drill, it can install with pressure.)					
Pressure class	1.6Mpa (less than 0.8MPa when installing)					
Protection class	IP68 (can work in water, and water d	epth≤3 meter)				
Mounting Space	more than 550mm between the well wall and the pipe wall	more than 360mm between the well wall and the pipe wall	more than 700mm between the well wall and the pipe wall			
Length	186mm	228mm	330mm			
Liquid types	Water,sea water.waste water,chemical liquids,oil,crude oil,alcohol,beer,etc.					
Suspension concentration	≤20000ppm,may contain very small amount of air bubbles.					
	shielded transducer cable, can be extended to 500meter×2contact the manufacturer for longer cable requirement, but the cable for water meter transducer do not more than 5 meter.					



How to Choose the Type?

Letter	Parameter	Option					
		N:None					
Α	Display terminal	S: the panel mount(power:85-264VAC or 24VDC)					
		F: the plastic wall mount(power:85-264VAC or 24VDC)					
	Davis	A:AC 85-264VAC(for the display terminal)					
В	Power	D:DC 24VDC(for the main unit)					
		B1 S1 type Clamp-on tranducer for small pipe					
		B2 M1 -type Clamp-on tranducer for middle pipe					
		B3 L1 -type Clamp-on tranducer for large pipe					
		B4: S1H-type Clamp-on high temperature tranducer for small pipe					
С	transducer	B5: M1H-type Clamp-on high temperature tranducer for middle pipe					
		C1: B-type insertion wetted transducer					
		C2: Cement insertion wetted transducer					
		G: Pipe transducer (less than DN40 use the PI-type transducer,					
		more than DN50 use the Standard-pipe transducer)					
D	Pipe size	DN(mm)					
E	Pipe material	0: Carbon steel 1: Stainless steel 2: cast iron 3: GFRP 4:pvc 5: Cement					
F	Nominal pressure	MPa					
		A:4-20mA output(note range)					
G	Signal output	F:OCT output					
		4:RS485 output(note baud rate communication check digit)					
		N:None					
	Signal input	1:one channel 4-20mA analog input (note range)					
Н		2:two channels 4-20mA analog input (note range)					
		3: three channels 4-20mA analog input (note range)					

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