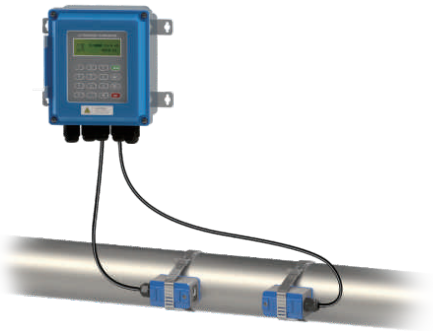
ULTRASONIC FLOW METER

GUF120A-W



FEATURES

- Accuracy: 1%
- Ingress protection level: IP67 (transmitter), IP68 (sensor)
- Wide measurement range, pipe size from DN15mm to DN6000mm.
- Three installation types: wall mounting, DIN-rail mounting, explosion-proof box mounting
- Could operate with temperature sensors for heat/energy measurement.
- Could be installed without shut down equipment operation



Clamp On



Insertion



Pipe

PRODUCTDESCRIPION

GUF120A-W wall mounted ultrasonic flow meter could be applied to a variety of liquid applications including ultra pure liquids, water, chemicals, raw sewage, reclaimed water, cooling water, river water, plant effluent, alchole, beer, etc.

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MAGNETIC CLAMP ON SENSOR

Flow Measurement	Heat Measurement	Features

Clamp on





- Could be installed without shut production down, no pressure loss.
- Could operate with temperature sensor for heat / energy measurement.
- Easy for installation.

Insertion

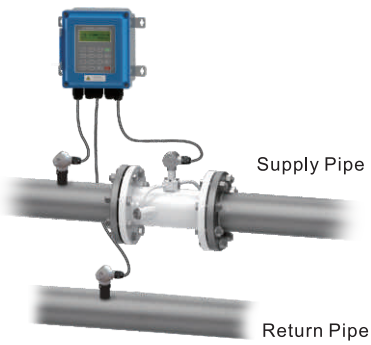




- Could be installed without shut production down, no pressure loss.
- Stable and reliable for long term operation.
- Could operate with Pt100 temperature sensor for heat / energy measurement.

Pipe





- Could be installed without shut production down, no pressure loss.
- High accuracy and stability.
- Could operate with Pt100 temperature sensor for heat / energy measurement.

SENSOR OPTIONS

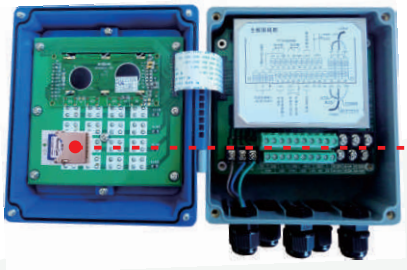
Types	Picture	Spec.	Model	Measurement Range	Temperature	Dimension
Clamp on		Small Size	TS-2	DN32~DN100	-30~90℃	45×25×32mm
		Medium Size	TM-1	DN50~DN700	-30~90℃	64×39×44mm
		Large Size	TL-1	DN300~DN6000	-30~90℃	97×54×53mm
High temp clamp on		Small Size	TS-2-HT	DN32~DN100	-30~160℃	45×25×32mm
		Medium Size	TM-1-HT	DN50~DN700	-30~160℃	64×39×44mm
		Large Size	TL-1-HT	DN300~DN6000	-30~160℃	97×54×53mm
Insertion		Standard	TC-1	DN80~DN6000	-30~160℃	190×80×55mm
		Lengthen	TC-2	DN80~DN6000	-30~160℃	335×80×55mm
Pipe		π type	G1	DN15~DN32	-30~160℃	Pls refer to detailed pipe dimensions
		Standard	G2	DN40~DN1000	-30~160℃	

OPTIONAL TEMPERATURE SENSORS

Picture	Specification	Model	Meas. Range	Temperature	Cut of water	Accuracy
	Clamp on temperature Transducer Pt100	CT-1	≥DN50	-40~160℃	No	100℃ ± 0.8℃
	Insertion temperature Transducer Pt100	TCT-1	≥DN50	-40~160℃	Yes	
	Insertion Pt100 Installation with pressure	PCT-1	≥DN50	-40~160℃	No	
	Insertion Pt100 Small size pipe diameter	SCT-1	< DN50	-40~160℃	Yes	

OPTIONAL SD CARD MEMORY

The optional SD card memory could help to solve the problem of data storage and readings. With the SD card, users will be worry free of data recording or getting a data logger.



SPECIFICATIONS

Items	Performance & Parameter	
Convertor	Principle	Transit-time ultrasonic flowmeter
	Accuracy	±1%
	Display	2×20 character LCD with backlight, support the language of Chinese, English, Italy, Turkish
	Signal Output	1 way 4~20mA output, electric resistance 0~1K，accuracy0. 1%
		1 way OCT pulse output（Pulse width ~1000ms，default is 200ms)
		1 way Relay output
	Signal Input	3 way 4~20mA input, accuracy 0. 1%， acquisition signal such as temperature, press and liquid level
		Connect the temperature transducer Pt100, can finish the heat/energy measurement
	Data Interface	Insulate Rs485 serial interface, upgrade the flowmeter software by computer, support the MODBUS
Special Cable	Twisted-pair cable, generally, the length under 50 meters; Select the RS485, transmission distance can over 1000m	
Pipe Installation Condition	Pipe Material	Steel, Stainless steel, Cast iron, Copper, Cement pipe, PVC, Aluminum, Glass steel product, liner is allowed
	Pipe Diameter	DN32~6000mm
	Straight Pipe	Transducer installation should be satisfied: upstream10D, downstream 5D, 30D from the pump
Measuring Medium	Type of Liquid	Single liquid can transmit sound wave, such as Water (hot water, chilled water, city water, sea water, waste water, etc.); Sewage with small particle content; Oil (crude oil, lubricating oil, diesel oil, fuel oil, etc.); Chemicals (alcohol, etc.); Plant effluent; Beverage; Ultra-pure liquids, etc.
	Temperature	-30~160℃
	Turbidity	No more than 10000ppm and less bubble
	Flowrate	0~±7m/s
Working Environment	Temperature	Convertor：-20~60℃； Flow Transducer：-30~160℃
	Humidity	Convertor: 85% RH； Flow Transducer：can measure under water, water depth≤2m(tansducer sealed glue)
Power Supply	DC8~36V or AC85~264V	
Power Consumption	1.5W	
Dimension	132*150*85 mm(convertor)	

TYPE SELECTION

	Transmitter	Sensor	Diameter	Pipe material	Pressure	Cable length	Temp. sensor	SD card
GUF120A-	□	□	DN□ (mm)	□ (pipe)	□MPa	□m	□	□
	W (wall)	TS		0 Carbon steel			None	0 YES
		TM		1 Stainless steel			CT-1	1 NO
		TL		2 Cast iron			TCT-1	
		TS-HT		3 Glass fiber			PCT-1	
		TM-HT		4 PVC			SCT-1	
		TL-HT		5 Cement				
		TC-1		6 Others				
		TC-2						
		G						

Example:GUF120A- W + TM + DN300 + 0 + 1.6 MPa + 10m + PCT-1
Means:Standard confirguration = GUF120-W (transmitter) + TM + 5m cable + Steel belt (DN200) + Couplant (1pc)