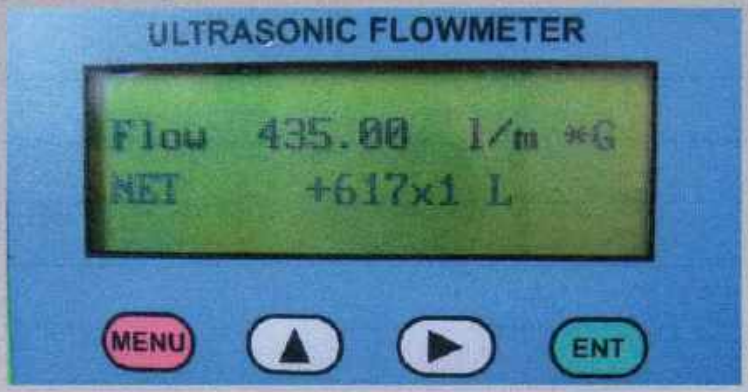
G3500 SERIES

ProsonicFlow
G3500

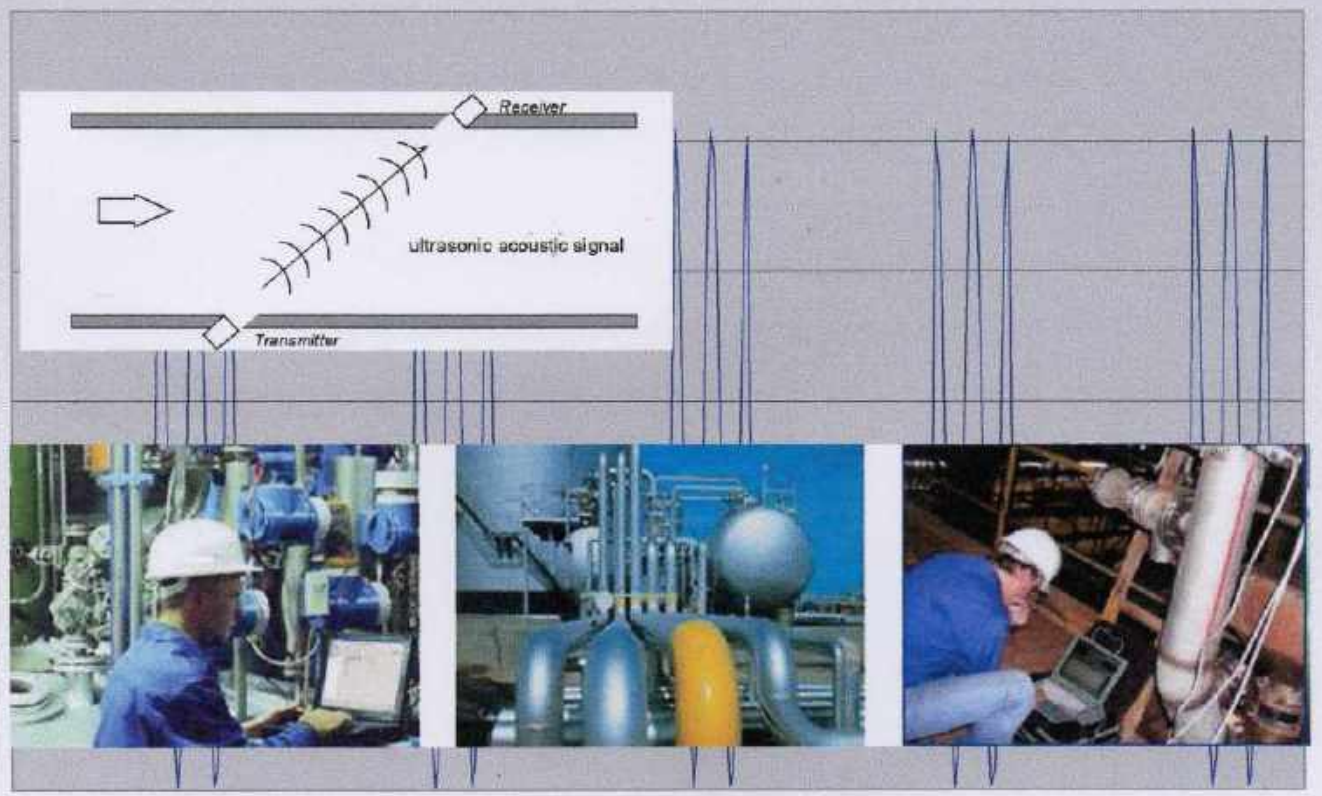
A NEW GENERATION OF WALL MOUNT TRANSIT-TIME FLOWMETERS



WALL MOUNT ULTRASONIC FLOW METER

With

ENERGY MEASUREMENT CAPABILITY



WALL MOUNT TRANSIT - TIME FLOW METERS

THE LATEST ADVANCE IN HANDHELD FLOW MEASUREMENT

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G3500 SERIES

WALL MOUNT TRANSIT - TIME FLOW METERS

ProsonicFlow G3500

HIGHLY ACCURATE WALL MOUNT FLOW MEASUREMENT FOR FULL PIPE LIQUID

The PROSONIC G3500 ultrasonic thermal energy meter provides abundant capabilities for accurate thermal energy measurement of a liquid-based thermal energy production / transferring system.

The PROSONIC G3500 system is consisted of the high performance ultrasonic flowmeter .The ultrasonic flowmeter is based on our cutting-edge clamp-on flow measurement technology, which is capable of measuring the flow from outside of a pipe accurately and reliably. Due to the non-intrusive nature of this technology, there is no pipe cutting, no moving parts, no pressure drop, no leaks and no risk of contamination. In addition, the installation is simple and requires no special skills or tools.

PROSONIC G3500 provides versatile input/output interfaces, such as isolated digital outputs, relay output, batch control, alarm, 4-20mA output. In addition, the built-in isolated RS-485 port with surge protection and MODBUS support makes remote energy monitoring and energy meter networking easy and reliable.

PROSONIC G3500 is an ideal choice for improving HVAC, energy production and building energy efficiency in terms of heating, cooling ventilation and air-conditioning.

FEATURES :

- All components of system G3500 flowmeters, temperature sensors and net heat computing unit are manufactured
-Energy rate and total consumption measurement
-Heat Units: GJ / Kcal / BTU
- Non-intrusive clamp-on technology. Easy and economical installation
- No moving parts to worn out. Long-life span. Maintenance-free
- High accuracy.
- Wide flow measurement range, bi-directional
- Built-in totalizers, batch controllers and task Scheduler
- Isolated RS-485 interface. Supports the MODBUS Protocol
- Abundant input/output, such as 4-20mA output, relay output, pulse output, alarm output, etc.
- Suitable for pipes from 1" to 240"
- Suitable for virtually any liquid heating/cooling

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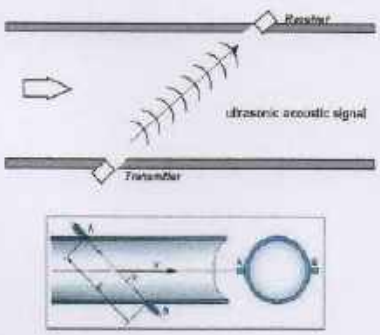
WALL MOUNT TRANSIT - TIME FLOW METERS

ProsonicFlow G3500

Newly released.Fully featured for non-intrusive accurate liquid flow measurement.

The Wall mount ultrasonic flow meter ProsonicFlow G3500 series is an ideal tool for service work and quick control measurements. Its clamp-on flow transducers are simply mounted onto the pipe from the outside and are thus quickly installed, without process interruption and without production stop.

The measurement is pressure independent and can take place on pipes of almost any materials and on almost any liquid .The measurement is possible on pipes with diameter between 25 mm and 6000 mm and at temperatures ranging from 0°C to 100°C. ProsonicFlow G3500 series is thus highly flexible and can be used on the most various applications on totally different measuring points. Two pairs of transducers usually are enough to cover the standard industrial applications.
a quick flow control with a good precision, even under difficult measuring conditions.

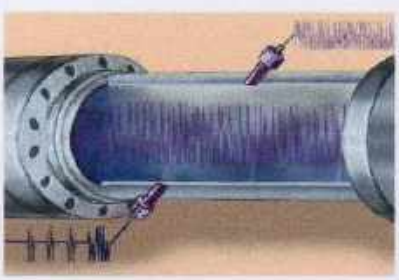


SENSOR INSTALLATION

To start the measurement, you only have to mount the transducers on the pipe, enter the pipe and medium parameter and adjust the distance between the transducers as indicated by the meter. No zeroing procedure is necessary since all transducer pairs are factory calibrated and the calibration data is permanently stored in the transducers themselves. The user interface is always automatically adapted to the actually connected transducers.
The status display enables even the in experienced user to judge online the quality and precision of the measurement.
The Wall-Mount ultrasonic flow meter ProsonicFlow G3500 series allows for a quick flow control with a good precision, even under difficult measuring conditions.

ACCURACY AND REPEATABILITY

The Wall-Mount ultrasonic flow meter ProsonicFlow G3500 series is latest innovation for low cost, high portability, high accuracy and non-intrusive flow measurement. It integrates state-of-the-art transit-time measurement and ultrasonic signal processing technologies as well as the latest advancements in semiconductors.
Accuracy : Normally better than ±1%, could be ±0.5% with on-site calibration.*
Repeatability : 0.2 % , **Linearity :** 0.5 %



INPUT / OUTPUT

ProsonicFlow G3500 Series Wall-Mount type ultrasonic flow meter
Current output: 4-20mA (Loop Power)
RS485 Serial Port
Three Analog Input
Two OCT output
Power Supply 12VDC-24VDC/50 Ma
Temperature sensors :
RTD : Matched pair of PT 100 on request

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G3500 SERIES

WALL MOUNT TRANSIT - TIME FLOW METERS

ProsonicFlow G3500

HIGHLY ACCURATE WALL MOUNT FLOW MEASUREMENT FOR FULL PIPE LIQUID

DESIGN SYSTEM

Accuracy : ± 1% (± 0.5% with on-site calibration)
Repeatability : 0.25 %
Wide Turndown Range ±0.01 - ±30 m/s

SIMPLE PROGRAMMING

LCD display 2x10 letters
4 button keypad with more 100 windows
Step-by step programming assistance

OPTION

LCD with backlight. 2×20 letters.
RS-485 with 18 button more 100 function

QUICK INSTALLATION

5 Minute installation with Magnetic sensor
Display mounting Instructions
Display check signal status
No hand tools required

Why Ultrasonic Technology?

Extensive Weight and Space Reduction 50-60%

Substantial Cost 30-40 %

Non-Intrusive Design,

Virtually Maintenance Free

Inline Transducer Removal

Improved Accuracy and

Bi-Direction Operation

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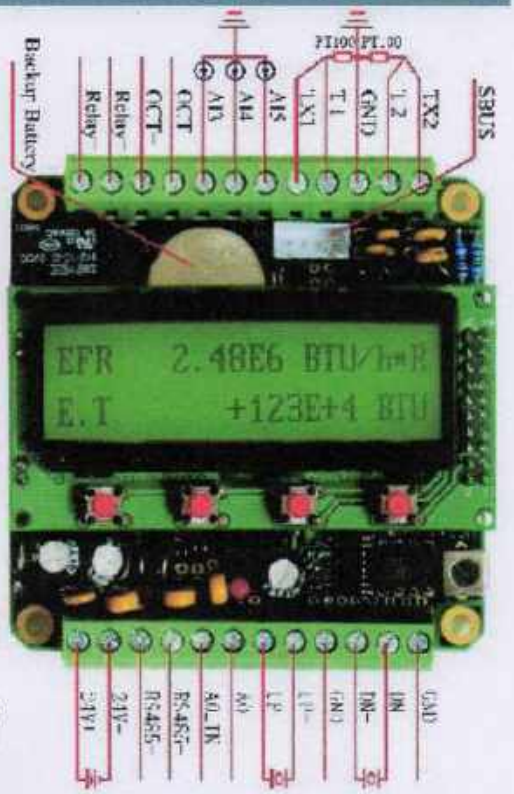
WALL MOUNT TRANSIT - TIME FLOW METERS

Flow Model	Sensor type	Cable Length	Option
G3500			
Instrument unit	Pipe Diameter	Standard 5 M	Keypad
Connection cable	1"-4"	(Max. 500m)	Display
Silicone Grease	**S1**		
			Matched
	Pipe Diameter		pair of PT 100
	2"-28"		
	M1		

SPECIFICATION

WIRING DIAGRAM



SENSOR WITH CABLE

SILICONE GREASE

PERFOMANCE

Linearity	0.5%
Repeatability	0.2%
Accuracy	± 1% (± 0.5% with on-site calibration)

APPLICATION

Velocity	±0.03 - ±32 ft/s (±0.01 - ±10 m/s), bi-directional
Pipe Size	1" - 240" (DN25mm - DN6,000mm)
Pipe Material	All metals, most plastics, concrete, lined pipe
Totalizer	7-digit totals for net, positive and negative flow respectively
Liquid Types	Virtually all clean liquids and liquids with minor solids (<10,000ppm). Full pipe

PT100 SENSOR

OPTION FOR PROGRAMMING

Digital Interface	LCD with backlight. 2×20 letters. RS-485 with 18 button more 100 function for configuration.

DIMENSION

Dimension & weight	90x90x37 mm 110g

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Model Selection

Prosonic	-	G3550	-		-		-		-	

	Main Units
S-	Standard
T-	Energy Measurement
P-	Energy Measurement with PT 100 SENSOR
E-	Explosive proof
	Sensor Type
1-	Type S1 for size 1 " - 4"(DN25-DN100 mm)
2-	Type M1 for size 2 " - 28"(DN50-DN700 mm)
3-	Type L1 for size 11" - 240"(DN300-DN6000 mm)
4-	Type S1HT for size 1 " - 4"(DN15-DN100 mm) high temperature (up to 155°C)
5	Type M1HT for size 2 " - 28"(DN50-DN700 mm) high temperature (up to 155°C)
6-	Type L1HT for size 11 " - 240"(DN300-DN6000 mm)high temperature (up to 155°C)
	Transducer cable length
A	Standard 10 M
Y	On request
	Power Supply
1	Standard 8-36 VDC
2	8-36 VDC (with enclose box)
3	220 VAC (with enclose box)