4600.30/P Wall Mount Ultrasonic Flowmeter

FEATURES

*High Accuracy
Accuracy ~ +/-2%%

*Pipe Sizes

Between ¾" to 24" dependent on the transducer selected

*High Reliability

Low voltage, multi-pulse radiating electronic circuitry to improve accuracy and reliability

*EMF protection
Double balanced signal differential transmission receiving circuitry,

*Powerful Memory Function
Stores over 500 days of data

*Temperature Sensor Option
Optional temperature sensor to convert to BTU meter

Memory Option

Optional SD card

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PRODUCT INTRODUCTION

The **captor 4600.30/P Ultrasonic Flowmeter** is designed to measure a wide variety of liquids and be installed in minutes. Just clamp the transducers onto the outside of the pipe and you are ready to go. The unit is both rugged and accurate to around +/-2%. Connect the optional temperature sensors and the 4600.30/P instantly converts into a BTU meter.

The 4600.30/P is also flexible capable of measuring all types of liquids and therefore can be used in many applications such as water conservation, metallurgy, petrol-chemical, machine cooling and is particularly useful for energy monitoring.

MEASUREMENT

Flow Measurement	BTU Measurement	Features
		*Installation without shutting down the process or restricting flow
		*Easy installation and maintenance
		*Optional clamp temperature sensors that can measure the temperature of the outside of the pipe for measuring BTUs

supply

return

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OPTIONS

Transducers and mounting hardware available for various size and types of piping

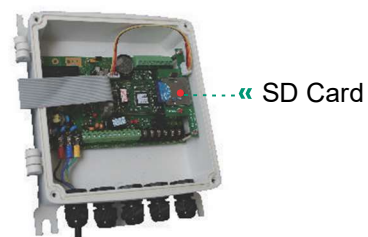| Type	Picture	Specification	Model	Pipe Size	Temperature	Dimension
Standard Clamp On Type		Small	TS-2	¾" to 4"	-30~90℃	45×25×32mm
		Medium	TM-1	2" to 24"	-30~90℃	64×39×44mm
		Large	TL-1	12" to 220"	-30~90℃	97×54×53mm
High Temperature Clamp On Type		Small	TS-2-HT	¾" to 4"	-30~160℃	45×25×32mm
		Medium	TM-1-HT	2" to 24"	-30~160℃	64×39×44mm
		Large	TL-1-HT	12" to 220"	-30~160℃	97×54×53mm
Insertion Type		Standard	TC-1	3" to 220"	-30~160℃	190×80×55mm
		Extra Long	TC-2	3" to 220"	-30~160℃	335×80×55mm
Pipeline Type		Standard	G3	¾" to 1"	-30~160℃	SS304 Thread Connection
		Standard	G2	1" to 1 ½"	-30~160℃	CS Thread Connection
		Standard	G1	2" to 220"	-30~160℃	CS Flange Connection

Temperature Sensors

Picture	Specification	Model	Measurement Range	Temperature Range	Installation Requirement	Accuracy
	Three Wire PT100 Clamp Temperature Sensor	CT-1	≥2"	-40~160℃	Clamp on	
	Three-Wire PT100 Insertion Temperature Sensor	TCT-1	≥2"	-40~160℃		100℃±0.8℃
	Three-Wire PT100 Insertion Temperature Sensor	PCT-1	≥3/4"	-40~160℃		Temperature differece ≤0.1℃ after match accurately
	Miniature three wire PT100 Insertion Type temperature sensor	SCT-1	≥3/4"	-40~160℃		

SD Memory Card

Optional SD card can be used for mass storage

« SD Card

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TECHNICAL PARAMETERS

Type		Performance, specification
Transmitter	Principle	Ultrasonic transit-time principle, Four-byte IEEE754 floating-point arithmetic
	Accuracy	±2%
	Display	LCD display
	Output	One 4-20mA Current output, Impedance 0-1K, Accuracy 0.1%
		One OCT Pulse output (Width 6-1000ms, Default200ms)
		One output relay
	Input	Three 4-20mA Current input, accuracy 0.1%, monitor temperature, pressure, level signals etc.
		Three-wire PT100 Platinum resistance for BTU measurement.
	Serial	Isolated RS485 interface, optional Modbus support
Piping	material	Stainless steel, cast iron, copper, PVC, and aluminum (also supports lined pipes)
	Diameter	¾" to 220"
	Installation	Upstream 10D, downstream 5D, 30D from the pump outlet
Medium	Fluid	Water, sea water, acid, beer, alcohol, oil or any liquid where sound speed is known
	Temp.	-30~160 deg. C
	Turbidity	10000ppm
	Velocity	Up to 10 m/s
Operating Environment	Temp	Meter: -20~60 deg. C; Transducer: -30~160 deg. C
	Humidity	Meter:85%RH; protection grade: IP68; Water Depth<2m
Power Supply		DC8-36V or AC85-264V
Power		1.5W Maximum power consumption