KIMANS
metering

HYDRASONIC S8

Ultrasonic In-line BTU meters (Flanged)

Revolutionizing Flow

Hydrasonic S8 ultrasonic BTU meter is designed for measuring the energy consumption in heating/cooling application for billing purpose.

Its static ultrasonic technology is based on the measurement of the transit time. It offers benefits like easy battery & temperature sensor replacement, IP68 protection, M-Bus and Wireless M-Bus communication options.

FEATURES

- INTERCHANGABLE BATTERY & TEMPERATURE SENSOR
- M-BUS COMMUNICATION
- IP68 PROTECTION
- SELF FLOW CONDITIONING MECHANISM

All Rights Reserved © Kimans Metering

GENERAL		
Application	-	Heating or bi-functional (heating/cooling) | Heat-transfer fluid: glycol-free water
Approval	-	In compliance with MID-EN1434
Accuracy class	-	Class 2
Ambient temperature	°C	+5 ... +55
Storage temperature	°C	+5 ... +55 | max. –20...+60 (max. 4 weeks)
Humidity	%	95 maximum
Battery supply	-	3.6 VDC
Temperature sensor type	-	PT1000 , 2-wires: Ø 5.2 mm
Cable length of temperature sensor	m	3
Test possibilities	-	via display
Volume measuring cycle	s	2
Temperature measuring cycle	s	30
Power calculation cycle	s	2

CALCULATOR		
Protection class	-	IP66 (Optional IP67)
Environmental class-mechanical	-	M1, M2
Environmental class electromechanical	-	E1, E2
Calculator	-	Removable, with 3m cable to flow sensor
Absolute temperature range	°C	+1...+90 (+150 optional)
Starting temperature difference ΔΘ	K	0.125
Min. temperature difference ΔΘmin	K	In compliance with MID
Max. temperature difference (heating) ΔΘmax	K	147 (In compliance with MID)
Extensive readable data memory	-	Monthly for 18 months (hourly, daily, yearly optional) values of energy, volume and error hours; additionally event memory (error log
Interchangeable components	-	Battery (Standard) ; Temperature sensors (Optional)

All Rights Reserved © Kimans Metering

FLOW SENSORS

Dynamic range (Qp/Qi)	-	1:100
Mounting position flow sensor	-	Any position, no straight run requirements
Temperature range (heating/ cooling)	°C	2-87*
Protection class	-	IP68 (heating/cooling)

*150 °C optional

INTERFACES

Optical	ZVEI interface, for communication and testing. M-Bus protocol
Display	LCD-8 digit
M-Bus	According to EN13757-3: 2013
Wireless M-Bus	According to EN13757-4; 2013

DISPLAY

Display indication	LCD-8 digit + special characters
Units	kWh - m³ - °C - m3 /h*
Total values	99,999.999
Values displayed (main loop)	Energy - Volume - Flow - Power - Temperature - Differential temperature - Operating hours - Meter SN-Meter size-Meter time-Error Status - Display test

*MWh-GJ optional

M-BUS

M-Bus	Auto baud detect (300 and 2,400 bauds); galvanically insulated
M-Bus cable	24 AWG , 2 Core
Data transmission	Data reading via 2 non-polarized wire (1.5m)
Battery life-time	Up-to 12 years*

*Under standard conditions of use and temperature

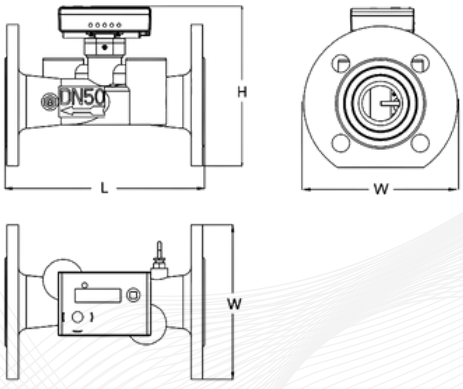
All Rights Reserved © Kimans Metering

FLOW SENSOR TECHNICAL DATA

Measuring Method		Ultrasonic; Time of Flight												
Nominal Diameter	mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500
Nominal flow qp	m³/h	15	25	40	60	100	150	250	400	600	750	900	1200	1500
Minimum flow qi	m³/h	0.3	0.5	0.8	1.2	2.0	3.0	5.0	8.0	12	15	18	24	30
Maximum flow qs	m³/h	30	50	80	120	200	300	500	800	1200	1500	1800	2400	3000
Length	mm	200	200	225	250	250	300	350	450	500	500	500	500	500
Dynamic range Qp/Qi	-	1:50	1:50	1:50	1:50	1:50	1:50	1:50	1:50	1:50	1:50	1:50	1:50	1:50
Accuracy class (MID)	-	class 2												
Nominal pressure PN	Bar	16 / 20(optional)												
Pressure drop Δp at qp	Bar	<0.25												

DIMENSIONS

Nominal diameter (DN)	Length L(mm)	Stainless Steel (SS)		Cast Iron(CI)		Stud Bolt	Bolt Holes
		Width W(mm)	Height H(mm)	Width W(mm)	Height H(mm)		
50	200	165	180	165	190	M16	4
65	200	182	197	185	203	M16	4
80	225	197	209	184	220	M16	8
100	250	218	229	205	229	M16	8
125	250	245	260	230	245	M16	8
150	300	283	295	260	265	M20	8
200	350	335	340	320	320	M20	12
250	450	405	405	405	405	M24	12
300	500	460	460	460	460	M24	12
350	500	520	520	520	520	M24	16
400	500	580	580	580	580	M27	16
450	500	640	640	640	640	M27	20
500	500	715	715	715	715	M30	20



All Rights Reserved © Kimans Metering

ORDERING CODE

HYDRASONIC	S8	-	XX	-	XX	-	XX	-	XX	-	XX	-	XX

Connection Size(Flanged)	
DN50	50
DN65	65
DN80	80
DN100	100
DN125	125
DN150	150
DN200	200
DN250	250
DN300	300
DN350	350
DN400	400
DN450	450
DN500	500

Material of Construction(MOC)	
Stainless Steel	SS
Cast Iron	CI

Flow Sensor Cable Length	
3m	3

Temperature Sensor Cable Length	
3m	3

Interchangeable Components	
Battery(standard)	B
Battery & Temperature Sensors	BT

Temperature Range	
1- 90°C	TS
1-150°C	TO

HYDRASONIC S8 is a registered trademark of Kimans Metering. Due to continuous R&D, product improvements and enhancements, Kimans Metering reserves the right to change product or system specifications without notice, except to the extent an outstanding contractual obligation exists. © 2024 Kimans Metering. All rights reserved.

www.kimans.com

All Rights Reserved © Kimans Metering