SGM-101F transit time ultrasonic flowmeter

For conductive and non-conductive liquids

Measure range <0.2m3/h to >400000m3/h

Accuracy ± 1%

Clamp on IP68 sensors also for high temperatures

Pipe dimension range: DN20 to DN4000

Datalogger via SD card or via MODBUS

Heat meter



The SGM-101F flowmeters operate on the ultrasonic pulses transit time difference principle. The great advantage is the mechanical installation, because it is not necessary to cut the pipe. The sensors are simply clamped on the outer pipe surface, for this reason the pressure and the liquid aggressiveness to be measured are not a problem for the fl owmeter. The system measures in a bidirectional way and is suitable for clean or slightly dirty liquids.

TECHNICAL FEATURES

Pipe dimension range

DN20 to DN4000

Transmitter protection class

IP66

Transducer protection class

IP68

Display

backlighted 2x20 alphanumeric digit

Keypad

4 keys

Housing material

aluminium

Displayed data

instantaneous flowrate; flow totalizer

Installation

wall mounting

Analog Output

Sel. 4-20mA or 0-20mA

Accuracy

±1%

Repeatability

±0.2%

Linearity

±0.5% Basic measurement period

500ms

Serial port

RS485

Communication protocol

MODBUS RTU or ASCII+ (opz.)

Data logger

on SD card (opt.) or via MODBUS

Programmable frequency output

0-5000Hz

Relay output

n.1 for pulse totalizer or alarm

Medium speed range

±12m/s

Unit working temperature

-20 to 60°C

Instrument humidity

non condensing 85% RH (40°C)

Transducer working temperature

TS-2 / TM-1 / TL-1 -30 to +90°C; TS2H / TM1H -30 to +160°C;

TC-1/ TLC2 -40 to +160°C

PT100 sensors working temperature

-40°C to +160°C

Transducer cable std. length

5mt

PT100 sensor cable std. length

15mt

Power Supply

230vAC or 10-30vDC (depending on model)

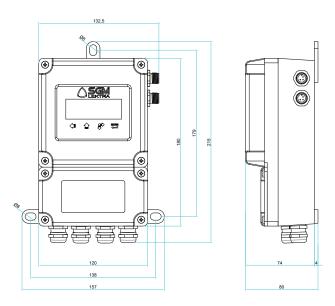
Dimensions

200x120x77mm

Weight without sensors

1Kg





SGM-101F Transit time ultrasonic flow meter

For conductive and non-conductive fluids. Wall mounting - Speed range: max ± 12m/s - Simultaneous display of flowrate and cumulative volume data

Available with heat meter option

Output: 4-20mA + 1 open collector + 1 relay Accuracy not better ± 1%

Transducers standard connection cable 5 mt Protection degree: transmitter IP66 - transducers IP68 Supplied with grease and steel hose clamps for transducers fixing up to DN900

Version	
С	Heat meter - with couple of cables L= 15 m (540Z084A)
D	Heat meter with couple of cables L= 15 m (540Z084A) + datalogger on 8GB SD card
U	Datalogger on 8GB SD card
W	Standard
Z	Special

Power supply		
Α	230vAC	
В	115vAC	
С	24vAC	
D	10-30vDC	
Z	Special	

Flow transducers		
A0	None	
Z999	Special	
TS-2	Clamp-on type for pipes DN 20-100 / -40 to 90°C (additional cable price each mt - max 200 mt)	
TM-1	Clamp-on type for pipes DN 50-700 / -40 to 90°C (additional cable price each mt - max 200 mt)	
TL-1	Clamp-on type for pipes DN 300-4000 / -40 to 90°C (additional cable price each mt - max 200 mt)	
TS2H	Clamp-on type for pipes DN 20-100 - high temperature -40 to 160°C (additional cable price each mt - max 200 mt)	
TM1H	Clamp-on type for pipes DN 50-700 - high temperature -40 to 160°C (additional cable price each mt - max 200 mt)	
TL1H	Clamp-on type for pipes DN 300-4000 - high temperature -40 to160°C (additional cable price each mt - max 200 mt)	
TC-1	Insertion type for pipes with max thickness 20mm -40 to 160°C (additional cable price each mt - max 200 mt)	
TLC2	Insertion type for pipes with max thickness 80mm -40 to 160°C (additional cable price each mt - max 200 mt)	

Additional output	
4	RS485 - MODBUS
N	None
Z	Special

Access	Accessories	
Α	None	
В	MODBUS communication software(010F109A)	
E	Couple of PT100 class A in MGO with SS316 sheat ø 3mm. M12 connector - L= 150 mm	
Н	Couple of SS316 wells for PT100 class A in MGO with sliding fitting. Process connection G ¼ M - L= 50 mm	
L	Couple of SS316 wells for PT100 class A in MGO with sliding fitting. Process connection G 1/4 M - L= 100 mm	
Р	Couple of surface mounting brass plates for PT100 class A in MGO ø 3mm	
Q	Couple of metallic hose clamps for PT100 for up to DN900 pipes (590A010A)	
Z	Special	

