

# SGM-101H

transit time ultrasonic flowmeter

The SGM-101H flow measurement system consists of a digital converter and two ultrasonic transducers. The transit time of a fluid, inside a cylindrical section tube, is the operating principle on which the instrument is based to calculate the instantaneous flow rate value. SGM-101H has an active 4 ÷ 20mA output and the MODBUS RTU communication port



- Portable system suitable for conductive and non-conductive fluids even with the presence of suspended material (<10g / l; <01mm)
- Measuring ranges from <0.02m<sup>3</sup> / h to 24000m<sup>3</sup> / h
- Measurement accuracy: ± 1%
- Clamp-on sensors on metric ruler
- Measurement range DN25 ÷ DN1200 Datalogger on SD card Backlit LCD display
- Battery life: max 6h
- Analogue output 4 ÷ 20mA
- MODBUS RTU digital communication

## TECHNICAL FEATURES

### Pipe dimension range

DN25 -; DN1200

### Transmitter protection class

IP68

### Converter protection class

IP54

### Display

3.5" TFT, 320x240pixel, LCD rbacklit-ghted

### Keypad

23 touch keys

### Converter housing material

Aluminium

### Accuracy

±1%

### Battery life

6h

### Charger

100÷240Vac

### Displayed data

instantaneous flow; flow rate; signal quality

### Totalizer

positive, negative and net

### Data logger

SD card

### Clamp-on transducers on metric frame

-40÷ +80°C

### Temperature range converter

-10÷ +50°C

### Analog output

4÷20mA, max 750ohm

### Digital communication

MODBUS RTU

### Cable lengths

5m

**SGM-101H**

Portable transit time ultrasonic flow meter

For conductive and non-conductive fluids.

With clamp-on transducers on metric frame.

Simultaneous display of flowrate and cumulative volume data

Speed range: max  $\pm 20$ m/s. Accuracy:  $\pm 1\%$  Repeatability: 0,3%

Ambient temperature:  $-20^{\circ} + 60^{\circ}$ C - Humidity <85% (RH)

Transducers temperature range:  $-40^{\circ} + 80^{\circ}$ C. Battery life: 6 hours.

Hand.held mechanical protection: IP54. Transducers protection: IP68.

Transducers connection cables: 5 mt

Supplied with acoustic coupling gel, battery charger, accessories for transducers mounting, SD card with software for data acquisition on PC (Excel file), SD card adapter for USB port, junction box for 4+20mA and MODBUS RTU output connection.

<b>Transducers</b>	
<b>1</b>	Transducers on metric frame for pipes from DN25 to DN1200 IP68
<b>Accessories</b>	
<b>A</b>	None
<b>Z</b>	Special