



SISMA

G. GIOANOLA

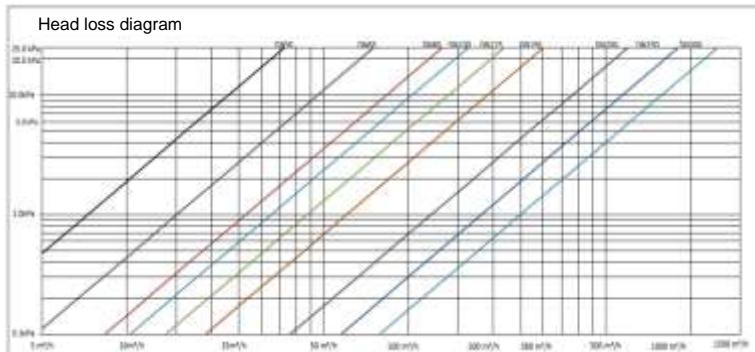
METERING EFFICIENCY

**Ultrasonic flow meter
for thermal energy for heating and
cooling systems**

FLOW SONIC PLUS

- Mid approval: MI004
- Accuracy class: EN1434 classe 2
- Temperature range: 1 °C - 130 °C

- Flow meter consisting of a metal measuring insert connected to an electronic volume calculation unit
- Nominal flow rates from Qp 15 m³/h to Qp 600 m³/h
- The meter has a volume-only function that can be interfaced with heating/cooling heat energy calculation units
- Static ultrasonic meter without moving parts with installation on the return circuit
- Installation in any position
- IP68 protection rated
- Measuring range 1:250 from DN50 to DN100 with horizontal installation, other positions DN 1:100
- Not suitable for solutions containing glycol



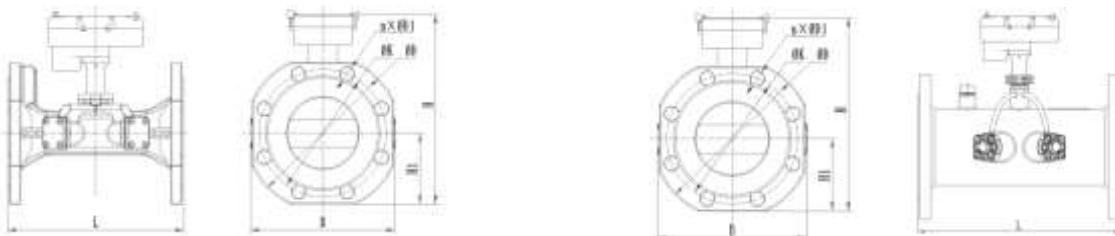
DN	mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
Nom. flow rate Qp	m ³ /h	15	25	40	60	100	150	250	400	600
Max flow rate Qs	m ³ /h	30	50	80	120	200	300	500	800	1200
Min flow rate Qi	m ³ /h	0.15	0.25	0.4	0.6	1	1.5	2.5	4	6
Starting flow	m ³ /h	0.01	0.02	0.03	0.05	0.08	0.	0.2	0.3	0.4
Pulses K	L/pulse	10	10	10	10	100	100	100	100	100
Pulse duration	ms	100	100	100	100	100	100	100	100	100
Nominal pressure	PN	16	16	16	16	16	16	16	16	16
Protection rating	IP	68	68	68	68	68	68	68	68	68

TECHNICAL DATA	
Mechanical/electromag class .	EN1434/MID E2+M2 (optional E1+M1)
Operating temperature (°C)	Storage temperature : -20~55 °C Ambient temperature : 5~55 °C
battery	3.6V 10+1 (*)-year lithium battery life
External power supply	(5~24)VDC
Mounting position	Any position
Pulse length	100mS ~10Hz max
Communication interface	Open Collector
Pulses	Max. input voltage : 12 VDC Max. input current : 10 mAdc
Cable length	Default 3m (3m~20m optional)
Operating pressure	16 bar flanged connection (opz. 25 bar)
Max. installation height	2000 mt above sea level
Recommended T° range	+10°C...+130°C heating
(*) Battery life	According to environmental conditions

- Optional data interface for transmission of volume, flow rate, flow direction and device status
- Can be interfaced with any commercially available thermal energy calculation unit compatible with 100ms Open Collector output signal
- Can integrate temperature and pressure sensors with ½" thread connection
- Optional PN25

DIMENSIONIS FOR PN 16 VERSION

Nom size	DN	mm	50	65	80	100	125	150	200	250	300
Length	L	mm	200	200	225	250	250/350	300/350/500	350/500	400/600	450/500
Diameter	D	mm	165	185	200	220	250	285	340	405	460
Height	H	mm	221	232	253	273	360	390	450	510	565
Passage	K	mm	125	145	160	180	210	240	295	355	410
D HOLES	n×φL	mm	4xΦ18	4xΦ18	8xΦ18	8xΦ18	8xΦ18	8xΦ22	12xΦ22	12xΦ26	12xΦ26



We reserve the right to change the specifications, dimensions and weights given in this data sheet at any time without notice. Illustrations are not binding. 02-25

G. GIOANOLA Contatori d'acqua e di calore SISMA - www.gioanola.itStrada Alessandria, 50 - 14049 NIZZA M.TO (AT) - ITALY - Tel +39 0141 793536 - Fax +39 0141 702757 - E-mail info@gioanola.it