

# ULTRASONIC FLOWMETER Serie IFX-01

## ULTRASONIC FLOW SENSOR IFX

**Serie 01** - Class 2 - MI004

### Technical specification - ultrasonic flow sensor IFX-M4-01

Dimensions of flow sensor **IFX-M4-01**, flow rates, connection type and pressure losses are presented in this table:

Connection type	Overall length mm	Flow-rate m <sup>3</sup> /h			Pressure losses $\Delta q_p$ at $q=q_p$ , MPa, not more, than
		$q_i$	$q_p$	$q_s$	
G 1¼ (DN25)	260	0,035	3,5	7	0,004
G 1¼ (DN32)	260	0,06	6	12	0,01
G2 (DN40)	300	0,1	10	20	0,01
DN50	270	0,15	15	30	0,012
DN65	300	0,25	25	50	0,02
DN80	350	0,4	40	80	0,018
DN100	350	0,6	60	120	0,018



Table of minimum settable pulse value depending on the nominal flow rate and sensor, that can be required as option:

DN	25	32	40	50	65	80	100
Permanent flow $q_p$ , m <sup>3</sup> /h	3,5	6	10	15	25	40	60
Pulse value, liter/pulse	0,02	0,02	0,05	0,05	0,2	0,2	0,5

The factory default is 10 liters per pulse for all DN.

Different setting upon request.

### General conditions:

Ambient temperature	5 °C to 55 °C
Fluid temperature	0 °C to 130 °C
Max permissible pressure	< 1,6 MPa
Protection class	IP65 (IP67 on request)

Nominal diameter DN, mm	25	32	40	50	65	80	100
Weight, less than, kg	3,0	3,0	10,0	10,0	14,0	15,0	19,0

- The flow sensor meets the requirements according to 89/336/ EEC, EN50082-2, EN50081-2.
- Flowmeter may be installed both vertically and horizontally in pipelines. Vertical mounting is allowed only if flow direction in the pipeline is upwards. Flow direction is marked with arrow symbol on the body of the flow sensor.
- MID approval available.
- Easy connection to ISONRG ML311 serie, or another BTU meter (Please see ISONRG specifications separately)

### IFX - How to order

<b>MID</b>	—	<input type="checkbox"/> 0=EN1434 conform   4=MI004 marked
<b>VERSION</b>	—	<input type="checkbox"/> 01=Sensor (Pulses)   03=Small (DN15-50)   04=Wide (DN25-100)
<b>INSTALLATION</b>	—	<input type="checkbox"/> 1=Forward   2=Return side
<b>APPLICATION</b>	—	<input type="checkbox"/> A=Heating   B=Heating/Cooling
<b>DN/FlowRATE</b>	—	<input type="checkbox"/> 10=DN15/0,6   11=DN15/1   15=DN15/1,5   20=DN20/2,5   25=DN25/3,5   32=DN25/6   40=DN40/10   50=DN50/15   65=DN65/25   80=DN80/40   100=DN100/60   150=DN150/140 (no MID)   200=DN200/550 (no MID)
<b>SUPPLY</b>	—	<input type="checkbox"/> A=Battery 12v (version 01/03)   2=External (version 03/04)   3=Main (version 04)
<b>OUTPUT</b>	—	<input type="checkbox"/> 1=Pulse (version 01)   2=M-bus (version 03/04)   3=RS232/485 (version 04)   4=M-bus/RS232/Current (version 04)   5=Wireless (version 03)
<b>CABLE</b>	—	<input type="checkbox"/> 0=No cable   1=1,5 mt (std. version 03)   3=3 mt (std. version 01/04)   5=5 mt   10=10 mt   15=15 mt   20=20 mt
<b>OPTION</b>	—	<input type="checkbox"/> 0=No interface kit   2=Optical adapter version 03   3=Reader SW/LOG   4=Optical ad. for terminal   5=Handheld terminal   6=Cable set-up version 01 to ISONRG