ISOFLUX™

IFX-M1-F3 FLOW

ULTRASONIC FLOW METER

ISOIL INDUSTRIA

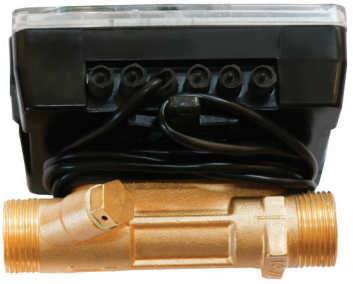
APPLICATION

Ultrasonic water meter ISOFLUX FLOW3 is designed for measurement of cold and hot water comsuption in households and block of flat, as well for industrial applications.

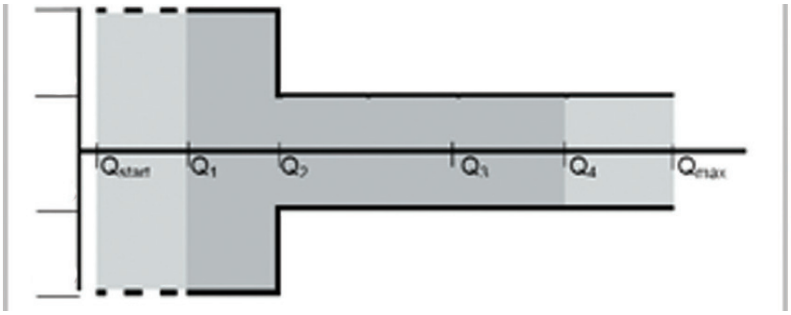
- Static water meter using ultrasonic technology
- High accuracy
- For residential and commercial use
- Hot and cold water

SPECIAL FEATURES

- Temperature class T30; T30/T90; T90
- Nominal flow 1,6 / 2,5 / 4,0 / 6,3 / 10 /16 / 25 m³/h
- Dynamic range up to Q3/Q1 = R 250/400
- No straight sections required
- No measurement of air
- Ambient class B
- Protection class IP65/67
- Nominal pressure PN16/25
- Pressure ΔP25/63
- Temperature measurement Pt500, 0°C ... 180°C
- Metering archive
- Battery lifetime > 12 years
- Power supplay options: Battery/External
- Optional communications modules
- Mounting in any installation position



MEASURING ACCURACY CLASS 2



APPROVAL

MID
OIML R49
EN14154

AMR Interfaces

Optical
Radio 868 MHz
M-Bus/CL
LON
MiniBus
Pulse output

OPTICAL INTERFACE

Integrated into the front panel of calculator. It is designed for data reading via M-bus protocol and parametrization of the meter.

RADIO INTERFACE

The internal radio provides data reading via WBUS telegram:

- Current total volume
- Current flow
- Current data and time
- Accounting date information
- Error date

WIRED M-BUS INTERFACE

The internal M-Bus module provides data reading possibility via M-Bus protocol

ERRROR CODES

ERROR code indication in case of error

UNIVERSAL PULSE INPUTS/OUTPUTS

- Pulse cable (Option)
- Two configurable pulse outputs/inputs
- Flow direction idication

DATA REGISTRATION

Hourly, daily and monthly parameters values

- Integral volume of liquid
- Integrated pulse value in pulse input1
- integrated pulse value in pulse input2
- Maximum flow rate value and date
- Operating time without an error
- Total error code
- Time when the flow rate exceeded 1,2 Q4
- Time when the flow rate was less tahn Q1

DATA LOGGER - HISTORY VALUES

- Every hour, day and month values of the measured parameters are stored in internal memory
- All data from archive can be read by means of the remote reading
- In addiction data logger records of monthly parameters can be seen on the display

LCD INDICATOR

- The device is equipped with 8-digits LCD with special symbols to dislpay parameters, measurement units and operation modes
- The following information can be dislpayed:
  - integral and instantaneous measured parametrs,
  - archive data and set day data,
  - device configuration information,
- Programmable LCD displaying parameters

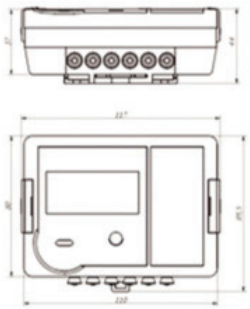
TECHNICAL DATA

FLOW RATE SENSOR	Q3 (m^3/h)	1,6/2,5/4,0/6,3/10/16/25
	R Q3/Q1 (m^3/h)	Q3 1,6 ... 250 Q3 2,5 ... 250/400 Q3 4,0/6,3/10/16/25 ... 250/400
	Medium Temp. (operating temperature)	0,1 ... 90°C
TECHNICAL DATA	LCD-Display	8-digit
	Protection class (IP)	IP65/67
	Ambient class	CLASS B / EN14154
	Ambient temperature	+5°C ... +65°C
	Installation place	indoor, outdoor in a pit or inst. box
	Installation position	all installation position (vertical, horizontal, rising pipe, down pipe)
	Nominal pressure	PN16/25 bar
	Pressure loss	0,63/0,25 bar
	Flow sensor cable lenght	1,2m (2,5m or 5m - special order)
	Temperature sensor, two-wired connection cable lenght (optional)	Up to 5m
	Battery lifetime	10-12years
	Mounting of calculator	Mounting on standard DIN-rail

Q_3, m³/h	R Q_3/Q_1	Q_4, m³/h	Q_1, m³/h	Q_2, m³/h	Threshold value of flow rate, m³/h	Joining to the pipeline (Thread – G, flange– DN)	Overall length L, mm	ΔP (bar x 100)
1,6	R250	2	0,0064	0,01	0,003	G3/4"	110, 165	ΔP 63, ΔP 25
						G1" or DN20	190	ΔP 25
						G3/4"	110, 165	ΔP 63
2,5	R250	3,125	0,01	0,016	0,005	G1" or DN20	190	ΔP 63, ΔP 25
						G1"	130	ΔP 25
2,5	R400	3,125	0,0063	0,01	0,003	G3/4"	110, 165	ΔP 63
						G1" or DN20	190	ΔP 63, ΔP 25
4	R250	5	0,016	0,026	0,008	G1" or DN20	190	ΔP 63, ΔP 25
						G1"	130	ΔP 63
4	R400	5	0,01	0,016	0,005	G1"	130	ΔP 63
						G1" or DN20	190	ΔP 63, ΔP 25
6,3	R250	7,875	0,0252	0,04	0,012	G1" or DN20	190	ΔP 63
						G1 1/4" or DN25	260	ΔP 25
6,3	R400	7,875	0,016	0,026	0,008	G1" or DN20	190	ΔP 63
10	R250	12,5	0,04	0,064	0,02	G1 1/4" or DN25	260	ΔP 63
						G2" or DN40	300	ΔP 25
10	R400	12,5	0,025	0,04	0,012	G1 1/4" or DN25	260	ΔP 63
16	R250	20	0,064	0,1	0,03	G2" or DN40	300	ΔP 63
						DN50	270	ΔP 25
16	R400	20	0,04	0,064	0,02	G2" or DN40	300	ΔP 63
25	R250	31,25	0,1	0,16	0,05	DN50	270	ΔP 63
25	R400	31,25	0,063	0,1	0,03	DN50	270	ΔP 63

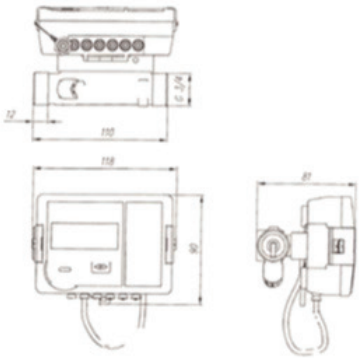
Dimensions of calculator

117 mm x 44 mm x 89,5 mm,



Sizes and dimensions of water meter

Example – flow sensor Q3= 1,6/2,5m3/h, Threaded end connections G3/4", mounting length L=110 mm.



DN [mm]	15	20	25	40	50
L [mm]	110 / 165	130/ 190	260	300	270
H [mm]	81	85	123/134	141/163	167
G/ Flange DN	G3/4"	G1" or DN20	G1 1/4" or DN25	G2" or DN40	DN50