

ULTRASONIC ENERGY METER Serie IFX-03

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RESIDENTIAL ENERGY METER IFX Serie 03 - All in one

Application

Ultrasonic heating and cooling energy meter IFX-M4-03 is designed to measure and to record data in two separate registers.

It can be used for commercial metering of energy consumption for local or district heating systems: in domestic housing, office buildings, energy plants and similar projects.

Main features and advantages

- List of displayed parameters can be set by the user.
- Two universal pulse inputs / outputs available can be used to connect additional pulse sources (for example - water meters), or as pulse outputs (for energy, volume values etc.).
- M-Bus, Current interface modules or wireless radio readout modules available.
- Tariff function available.
- Programmable monthly and yearly set days.
- Hourly, daily and monthly consumption values are stored in the internal data logger.
- Daily and monthly extreme (min/max) values with time stamps are recorded.
- Flow direction indication.
- The calculator can be mounted on the flow sensor or in other convenient location (on the rail, inside a hermetic enclosure or on the wall).

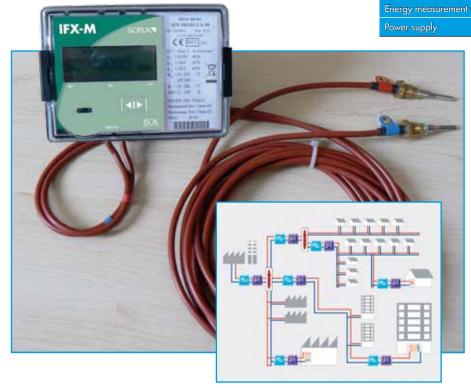
Flow measurement						
Flow measurement limits, mounting length and connection type:						
Connection type	Mounting length, mm	q _r m³/h	q _{p′} m³/h	q _s , m³/h		
G 3/4"	110	0,006	0,6	1,2		
G 3/4"	110	0,015	1,5	3,0		
G1"	130	0,025	2,5	5,0		
G1 1/4"	260	0,035	3,5	<i>7</i> ,0		
G11/4"	260	0,06	6,0	12,0		
G2"	300	0,100	10,0	20,0		
DN50	270	0,15	15,0	30,0		

luid temperature range	5 °C 130 °C, for $q_p \le 2,5$ m³/h 10 °C 130 °C, for $q_p \le 3,5$ m³/h
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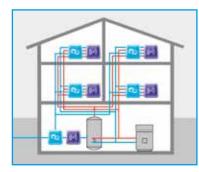
Maximum permissible pressure	1,6 MPa			
Temperature measurement				
Fluid temperature	0 ℃ 180 ℃			
Temp. difference measurement limits	2 150 K or 3 150 K			
Type of temperature sensors	Pt500 DS ($q_p \le 6 \text{ m}^3/\text{h}$) or PL			

Connection scheme - two-wire, cable length up to 5 m

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,	up to 960 hours for hourly records up to 1116 days for daily records up to 36 months for monthly records				
	117 × 44 × 90 mm				
	IP65 (IP67 on request)				
	5 °C to 55 °C				
Communication interfaces					
aces	integrated, according to EN 61107 (IEC 1107)				
	M-bus; 2 pulse outputs; Wireless 868 MHz				
	2 (according to EN1434)				
	faces erface				

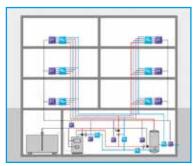


Facilities (cities heating/refrigeration)



kWh, MWh, GJ, Gcal internal battery (lifetime not less than 11 years)

Commercial (offces, industrial, building automation)



Domestic (residential houses, condominium)

