IFX ENERGY

MID
MI-004

Building Automation – Heating and Cooling

ISOFLUX®
The ultrasonic meter

ISOFLUX® ENERGY: KEY FEATURES

- MI004 - EN1434 - Class 2
- Up to 3 protocols simultaneously
- Function “ONE” setting editing before installation
- Integrated Datalogger
- Maximum temperature: 90/130 °C
- Protection class: IP65 or IP68
- Different power sources
- Calibration R100 or R250 (Qp/Qi)

ISOFLUX ENERGY

IoT

INDUSTRY 4.0

EN1434

HVAC & R

- Energy measurement and distribution
- Energy efficiency
- Custody Transfer
- Co and Tri-generation
- Hot and chilled water
- Data Center
- District heating
- Building Automation

Application

Designed for domestic and service sector applications, the IFX-E3/E4 **energy meter** link the flexibility of the “**ONE**” function with the opportunity to have three protocols simultaneously.

Their precision features make it the perfect instrument for shopping malls, **offices** and **light industries** applications, in addition to the classic **residential** applications.

ISOFLUX® PROTOCOLS AND CERTIFICATIONS

PROTOCOLS	BACnet - LoRaWAN - M-Bus - Modbus - RF - PULSES
CERTIFICATIONS	MID MI-004

IFX E3

Connections and temperature probes

Memorization

The thermal energy meter IFX-E3 has an integrated datalogger which allows data recording:
- every hour
- every day
- every month
- every year

Protocols

Having up to 3 protocols simultaneusly allows the IFX-E3 to be fully integrated with old and new integration systems, both wired or wireless and IoT ready.

Pulses

The Pulse I/O module allows the meter to receive volumetric pulses from hot o cold water counter, or sending pulses for volume or energy totalizers or allarms.

Flow sensor

The body is made of brass, capable to work up to 25 bar pressure and up to +130 °C temperature.

"ONE" FUNCTION

The "**ONE**" (Optimized & Nimble Editing) function allows the modification of some metrological parameter even when the instrument is MID approved.

This change must be done before the installation.

The editable parameters are:

- ***Vector fluid measurement side***
- ***Energy measure unit***
- ***Activation and value of the input/output additional pulses***

TECHNICAL FEATURES	
Power supply	12-24Vac/dc; 230Vac; Battery
Accuracy class	EN1434 - Class 2
Protocols	Up to 3 simultaneously
Protection rate	IP65 (IP68 optional)
Sizes	from 3/4" up to DN100
Qp values	From 0,6 m³/h up to 60 m³/h
Nominal pressure	PN25
Connection	Threaded or flanged

TEMPERATURE PROBES

DS - *Direct contact probes*

TECHNICAL FEATURES	
Class	B
Approval	MID MI004
Particularity	Pairing selection
Max cable length	10 m

Ball valve (1" and 1"1/2)

PL - *Pocket mounted long probes*

TECHNICAL FEATURES	
Class	B
Approval	MID MI004
Particularity	Pairing selection
Max cable length	10 m

Pocket
(85 mm - 120 mm - 210 mm)

IFX E4

Flow sensor

The flow sensor is made in composite material:
- Robust
- Up to 90°C
- PN16

Memorization

The thermal energy meter IFX-E4 has an integrated datalogger which allows data recording:
- every hour
- every day
- every month
- every year

Protocols

Having up to 3 protocols simultaneusly allows the IFX-E4 to be fully integrated with old and new integration systems, both wired or wireless and IoT ready.

"ONE" FUNCTION

The "**ONE**" (Optimized & Nimble Editing) function allows the modification of some metrological parameter even when the instrument is MID approved.

This change must be done before the installation.

The editable parameters are:

- ***Vector fluid measurement side***
- ***Energy measure unit***
- ***Activation and value of the input/output additional pulses***

TECHNICAL FEATURES	
Power supply	12-24Vac/dc; 230Vac; Battery
Accuracy class	EN1434 - Class 2
Protocols	Up to 3 simultaneously
Protection rate	IP65 (IP68 optional)
Sizes	From 3/4" a 1"¼
Qp values	From 0,6 m³/h to 6 m³/h
Nominal pressure	PN16
Connection	Threaded

TEMPERATURE PROBES

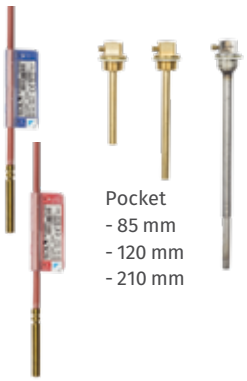
DS - *Direct contact probes*

TECHNICAL FEATURES	
Class	B
Approval	MID MI004
Particularity	Pairing selection
Max cable length	10 m

Ball valve (1" and 1"1/2)

PL - *Pocket mounted long probes*

TECHNICAL FEATURES	
Class	B
Approval	MID MI004
Particularity	Pairing selection
Max cable length	10 m



Pocket
- 85 mm
- 120 mm
- 210 mm

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THE MANUFACTURER RESERVES THE RIGHT TO CHANGE DATA & SPECIFICATIONS WITHOUT NOTICE.

ISOIL Industria s.p.a.
Cinisello Balsamo - Milan (Italy)
Via Fratelli Gracchi, 27
tel. +39 0266027.1 - fax +39 026123202
sales@isoil.it

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