Pietro Fiorentini

HM-iCON

The **HM-iCON** is a **smart meter with hybrid technology** for commercial and light-industrial applications. The HM gas meters series are designed and manufactured to meet the most stringent requirements of the European Natural Gas Distribution industry.

Medium / small industry

Commercial users

Features	Values		
G type	G10	G16	G25
Model	HM-ICON-**M16**	HM-ICON-**M25**	HM-ICON-**M40**
Minimum flow rate (Q_{min})	100 dm^3/h 3.5 scfh	160 dm^3/h 5.6 scfh	250 dm^3/h 8.8 scfh
Cyclic volume	6 dm^3 1.3 gal	6 dm^3 1.3 gal	8 dm^3 1.75 gal
Maximum flow fate	16 m^3/h 560 scfh	25 m^3/h 875 scfh	40 m^3/h 1400 scfh
Connections (ISO 228-1)	1" ¼ | 2"	2"	2" ½
Maximum permissible error range $Q_{min} \leq Q < 0.1Q_{max}$	±3%		
Maximum permissible error range $0.1Q_{min} \leq Q \leq Q_{max}$	±1.5%		
Maximum operating pressure	up to 50 kPa up to 500 mbarg		
Ambient temperature	from -25 °C to 55 °C from -13 °F to 131 °F		
Gas temperature	from -25 °C to 55 °C from -13 °F to 131 °F		
Accuracy class	1.5		
Ingress protection	IP65 or IP66		
Metrological power supply and operating lifetime	Lithium battery; 16 years in operation + 1 year in storage		
Remote communication power supply and operating lifetime	Lithium battery; • GPRS up to 8 years in operation + 1 year in storage • NB-IoT up to 16 years in operation + 1 year in storage		
Remote communication interface	NB-IoT, GPRS		
Local interface	Optical interface configuration according to EN Standard 62056-21		
Communication application protocol	DLMS standard application layer protocol		
Measuring gas	Natural gas (1st family, 2nd family - group H, L and E - and 3rd family according to EN 437)		
Environment classes	M1/E2		
ATEX classification	II 2G Ex h ia IIB T3 Gb		

(*) REMARK: Different functional features and/or extended temperature ranges available on request. Stated temperature ranges are the maximum for which the equipment's full performance, including accuracy, are fulfilled. Standard product may have a narrower range.

Table 1 Features

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Materials and **Approvals**

Part	Material
Body	zinc-coated pressed steel plate
Electronic enclosure	plastic polycarbonate
REMARK: The materials indicated above refer to the standard models. Different materials can be provided according to specific needs.	

Table 2 Materials

The HM-iCON is designed to meet ISO 12213-3, 2014/32/UE MID, EN1359:2017, OIML R 137-1 & 2 and UNI/TS 11291.
The product is certified according to European Directives 2014/32/EU (MID).
The HM-iCON is also ATEX approved for installation in Zone 1 (II 2G Ex h ia T3 Gb)

ISO 12213-3

EN1359:2017

OIML R137-1&2

UNI/TS 11291

MID

ATEX

RED

HM-iCON competitive advantages

- Temperture and pressure integrated sensors
- Open communication protocol DLMS based
- GPRS or NB-IoT communication technology
- Advanced diagnostic
- 16+1 years metrological battery
- Up to 16 years communication battery life with NB-IoT
- Biomethane compatible and 20% Hydrogen blending compatible. Higher blending available on request

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