

# 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 <sup>3</sup> /h 3.5 scfh	160 dm <sup>3</sup> /h 5.6 scfh	250 dm <sup>3</sup> /h 8.8 scfh
Cyclic volume	6 dm <sup>3</sup> 1.3 gal	6 dm <sup>3</sup> 1.3 gal	8 dm <sup>3</sup> 1.75 gal
Maximum flow rate	16 m <sup>3</sup> /h 560 scfh	25 m <sup>3</sup> /h 875 scfh	40 m <sup>3</sup> /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; <ul style="list-style-type: none"> <li>GPRS up to 8 years in operation + 1 year in storage</li> <li>NB-IoT up to 16 years in operation + 1 year in storage</li> </ul>		
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 (2 <sup>nd</sup> family -group H,L and E and 3 <sup>rd</sup> 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

## 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



Temperature and pressure  
integrated sensors



16+1 years metrological battery



Open communication  
protocol DLMS based



Up to 16 years communication  
battery life with NB-IoT



GPRS or NB-IoT  
communication technology



Biomethane compatible and  
20% Hydrogen blending compatible.  
Higher blending available on request



Advanced diagnostic