

# IM-RM H

**IM-RM H rotary meters** are used in gas distribution systems, compressor stations, and end users such as chemical and processing plants. This device is suitable for **100% hydrogen applications**. It is the natural evolution of the Pietro Fiorentini know-how and experience in the gas industry. Rotary meters are designed for custody transfer applications and used by gas transmission and distribution companies.



City Gates



Heavy industry



Medium / small industry



Gas reverse-flow



Regasification



Commercial users



Power generation



District stations

Features	Values
Flow rates*	from 0.5 m <sup>3</sup> /h to 1000 m <sup>3</sup> /h from 17.6 cfh to 35314 cfh
Design pressure*	up to 2 MPa up to 20 barg
Ambient temperature*	from -25 °C to +55 °C from -13 °F to 131 °F
Gas temperature range*	from -25 °C to +55 °C from -13 °F to 131 °F
Accuracy	$Q_{min} \leq Q < Q_t \pm 2\%$ & $Q_t \leq Q \leq Q_{max} \pm 1\%$ ( $Q_t$ according to EN12480)
Rangeability	up to 1:250
Repeatability	better than 0.1%
Index Protection	IP 67
Applicable metrology standards	MID 2014/32/EU
Index & pulse out	<ul style="list-style-type: none"> <li>• 8 digits</li> <li>• 2x low frequency pulse out (NO reed contact)</li> <li>• 1x anti fraude out (NC reed contact)</li> </ul>
Hazardous area certification	ATEX II 2 G Ex h IIC T6 Gb
Accessories	<ul style="list-style-type: none"> <li>• high frequency sensors</li> <li>• by-pass valve on Twin versions</li> </ul>
Nominal dimensions DN	from DN 40 to DN 150
Connections*	ANSI 150 according to ASME B16.5 or PN 16/25 according to EN 1092-1

**(\*) 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	Hard anodized aluminium alloy
Rotor	Aluminium alloy
Shaft & Bearings	Stainless steel
Index enclosure	UV resistant aluminium case suitable for outdoor installation

**REMARK: The materials indicated above refer to the standard models. Different materials can be provided according to specific needs.**

**Table 2** Materials

**IM-RM H** rotary meters are designed to meet EN 12480, OIML R137 1&2 :2012 and 2014/32/EU (MID) requirements.



EN 12480



OIML R137  
1&2 :2012



MID

The product is certified according to European Directive 2014/68/EU (PED) and 2014/34/EU (ATEX).



PED



ATEX

## IM-RM H competitive advantages



High rangeability



High performance rotor profile



Superior strength



Low pressure drop



Simplified maintenance and repair



Multi-functional Index



Compact size and lower weight



Decreased susceptibility to damage  
from pressure shocks



Suitable for 100% Hydrogen