

# IM-RM

**IM-RM rotary meters** are used in gas distribution systems, compressor stations, and end users such as chemical and processing plants. Rotary meters are used in the measurement of a variety of filtered and dry non-corrosive gases, including specialty gases. **Pietro Fiorentini** rotary meters are approved for custody transfer applications and used by natural gas transmission and gas distribution companies. Some sizes of meters are available in the HTR version according to EN12480 - Annex C.



City Gates



Gas engines



Medium / small industry



Gas reverse-flow



Regasification



Commercial users



Power generation



District stations



Biomethane production



Heavy industry

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 2.5 MPa up to 25 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 IIB T6 Gb
Accessories	<ul style="list-style-type: none"> <li>optical encoder index</li> <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
(*) <b>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.</b>	

**Table 1** Features

## Materials and Approvals

Part	Material
Body	hard anodized aluminium alloy or spheroidal graphite cast iron
Rotor	aluminium alloy
Shaft & Bearings	stainless steel
Index enclosure	UV resistant polycarbonate 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 rotary meters is designed to meet EN 12480 requirements & OIML R137 1&2 :2012.



EN 12480



OIML R137  
1&2 :2012

The product is certified according to European Directive 2014/68/EU (PED), 2014/32/EU (MID), 2014/34/EU (ATEX).



PED



MID



ATEX

## IM-RM 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



Biomethane compatible and  
25% Hydrogen blending compatible.  
Higher blending available on request\*\*

(\*\*) for aluminium body