

## **iM-TM**

**iMTM-CT Turbine meters**, approved for custody transfer applications, is mainly used for high-pressure transmission systems, power plants, heavy industry and for medium-low pressure natural gas distribution networks. This device is suitable for use with previously filtered non-corrosive gases. It is the natural evolution of the Pietro Fiorentini knowhow and experience in the gas industry.





Gas compression / booster stations



Gas reverse-flow



District stations



Gas liquefaction



Power generation



Medium / small industry



Gas storage



Heavy industry

Regasification



Commercial users



City Gates

Features	Values
Flow rates*	from 8 m³/h to 6500 m³/h from 282 cfh to 229 545 cfh
Design pressure*	up to 10 MPa up to 100 barg
Ambient temperature*	from -40 °C to +65 °C from -40 °F to 145 °F
Gas temperature range*	from -25 °C to +55 °C from -13 °F to 131 °F
Accuracy	Qmin $\leq$ Q $<$ Qt $\pm 2\%$ & Qt $\leq$ Q $\leq$ Qmax $\pm 1\%$ (Qt according to EN12261)
Rangeability	up to 1:20
Repeatability	better than 0.1%
Index Protection	IP 67
Applicable metrology standards	MID 2014/32/EU
Index & pulse out	<ul> <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><li>optical encoder index</li><li>high frequency sensors</li></ul>
Nominal dimensions DN	Aluminium body from DN 50 to DN 200 Carbon steel body from DN 50 to DN 300
Connections*	ANSI 150/300/600 according to ASME B16.5 From PN 16 to PN100 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 or carbon steel
Rotor	alluminiun alloy
Shaft & Bearings	stainless steel
Gears	Technopolymer
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-TM turbine meters is designed to meet EN 12261 requirements.



EN 12261

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







MID

## **iM-TM** competitive advantages



Removable metrological cartridge assembly



Optimized bearing construction



Simplified maintenance and repair



Lightweight aluminum bodies



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



Axial Load Compensation (ALC)

Multi-stage integrated flow conditioners

High performance aluminum

alloy turbine wheel

Multi-functional Index

(\*\*) for alluminiun and steel body