Pietro Fiorentini

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 know-how and experience in the gas industry.

- Gas compression / booster stations
- Gas liquefaction
- Gas storage
- City Gates
- Gas reverse-flow
- Power generation
- Heavy industry
- Regasification
- District stations
- Medium / small industry
- Commercial users

Features	Values
Flow rates*	from 8 m^3/h to 6500 m^3/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 ≤ Q < Qt ±2% & Qt ≤ Q ≤ Qmax ±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	• 8 digits • 2x low frequency pulse out (NO reed contact) • 1x anti fraude out (NC reed contact)
Hazardous area certification	ATEX II 2 G Ex h IIB T6 Gb
Accessories	• optical encoder index • high frequency sensors
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

Pietro Fiorentini

Materials and **Approvals**

Part	Material
Body	hard anodized aluminium alloy or carbon steel
Rotor	aluminium 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).

PED MID ATEX

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**
- High performance aluminum alloy turbine wheel
- Multi-stage integrated flow conditioners
- Multi-functional Index
- Axial Load Compensation (ALC)

(**) for alluminiun and steel body

Pietro Fiorentini S.p.A.
Via E.Fermi, 8/10 | 36057 Arcugnano, Italy | +39 0444 968 511
sales@fiorentini.com