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Technical Specifications

Turbine gas meter, series Type-C, IM-TM-CT-A

Applications:	Natural gas / Argon / Butane / Ethane Nitrogen / Carbon dioxide / Carbon monoxide Air / Methane / Pentane / Propane	
Meter body: strength calculation -	according RToD & EN 13445	
material -	cast aluminum	
flange connection -	according to ASME B16.5/EN1092 raised faced	
Pressure rating & mounting -	see table below	
surface treatment -	hard anodized	
installation length (L) -	3x nominal diameter	
design pressure -	20 bar	
design temperature range -	-25° / +65° C	
max. operating pressure -	according flange classification, see below table	
operating temp. range -	-25° / +65° C (MID -25° / +55° C)	
Feature:		
flow direction -	MID horizontal - QA Horizontal/Vertical	
pressure point -	Standard EO6 pipe-port - On request ¼ NPT plugged	
temperature measuring point -	Pocket for ø6mm sensor (2 pocket if No HF on Shaft, 1x pocket if HF on Shaft required)	
Lubrication system -	Standard: manual Oil-Pump	
high frequency sensor -	Optional HF on Main Shaft & HF on Turbine Wheel	
Index:		
low frequency sensor -	Standard: 8 digit index , on request Optical Encoder Index	
reading -	2x low frequency NO reed contact & 1 x anti fraude NC reed contact cubic meters [m ³]	
Calibration:		
authority -	Standard MID or QA calibration	
rangeability -	determined by approval & technical Qmin. See table below	
accuracy -	Qmin ≤ Q < Qt ±2% & Qt ≤ Q ≤ Qmax ±1% (Qt according to EN12261)	
repeatability -	0.1% or better	
Approvals:		
	Compliant with EN12261	
MID	Compliant with 2014/32/EU - Tifernogas Certificate : I-2142-MI002-TG013	
ATEX	Compliant with 2014/34/EU - Receipt TUV n° 0206120	
PED	Compliant with 2014/68/EU - Lloyd's register Certificate 0038/PED/MLN PRJ11090550/02/01	
Documents:	declaration of conformity, calibrations certificate, installation and operation manual	
Options:	on request	

Available Size:

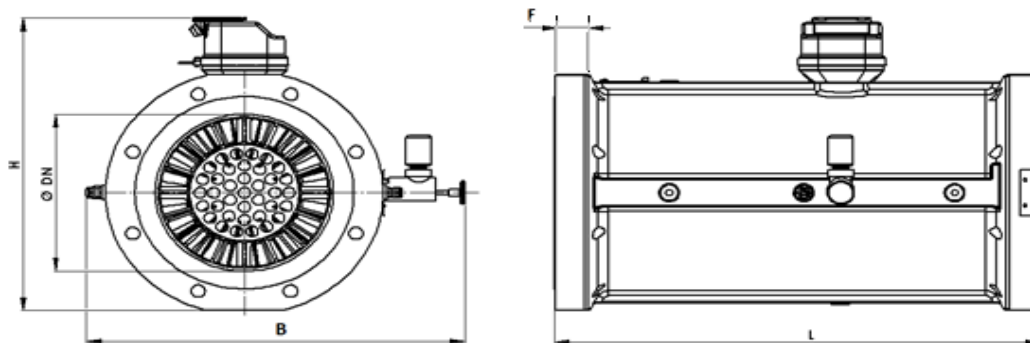
Rating	Qmax.	Qmin.	Size	LF pulses	Length	Weight	Mounting Bolts		
range	m ³ /h	m ³ /h	metric (inch)	Imp. /m ³	mm	Kg	PN10	PN16	ANSI 125-150
G40 ⁽¹⁾	65	13	50 (2") ⁽³⁾	10	150	5,5	4 x M16	4 x M16	4 x 5/8 UNC
G65 ⁽²⁾	100	10		10					
G100 ⁽²⁾	160	16		1					
G100	160	8	80 (3")	1	240	12	8 x M16	8 x M16	4 x 5/8 UNC
G160	250	13		1					
G250	400	20		1					
G400	650	32		1					
G160	250	13	100 (4")	1	300	15	8 x M16	8 x M16	8 x 5/8 UNC
G250	400	20		1					
G400	650	32		1					
G650	1000	50		1					
G400	650	32	150 (6")	1	450	30	8 x M20	8 x M20	8 x 3/4 UNC
G650	1000	50		1					
G1000	1600	80		0,1					
G1600	2500	130		0,1					
G650	1000	50	200 (8")	1	600	57	8 x M20	12 x M20	8 x 3/4 UNC
G1000	1600	80		0,1					
G1600	2500	130		0,1					
G2500	4000	200		0,1					

Note:

- ⁽¹⁾ QA Calibration ONLY
- ⁽²⁾ MID Calibration with rangeability 1:20 is ONLY available in combination with HP calibration ≥ 4 bar
- ⁽³⁾ HF Wheel Not available on this models

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IMTM-CT meters may be produced with several pressure ratings and several body materials. This drawing lists main dimensions of meter housing made of aluminum PN16 or ANSI150 type only. According to customer requests, B and/or H dimension(s) may change (example, when cryogenic long neck, HF shaft/wheel, and/or high pressure oil pump are used).



Aluminum body PN16 & ANSI150					
Size	DN	L ± 5 mm [mm]	B ± 10 mm [mm]	H ± 10 mm [mm]	F min [mm]
50 mm (2")	50	150	307	240	35
80 mm (3")	80	240	330	270	40
100 mm (4")	100	300	360	300	40
150 mm (6")	150	450	410	360	45
200 mm (8")	200	600	470	390	55