

IGTM-WT WAFER TYPE Gas Turbine Meter

The IGTM-WT is an industrial gas turbine meter for accurate volume and flow measurement. An 8-digit mechanical counter increments with gas passing through the meter. A standard low frequency pulser provides pulses per m³ (1R1) and can be connected to an electronic volume converter (EVC) for pressure and temperature conversion.



DN [mm] (Inch)	Size G	Q _{max} [m ³ /h]	Q _{min} [m ³ /h]
DN 50 (2")	40 & 65	100	10
DN 65 (2.5")	100	160	13
DN 80 (3")	100 & 160	250	10
	250	400	20
DN 100 (4")	160 & 250	400	13
	400	650	32
DN 150 (6")	400 & 650	1000	32
	1000	1600	80
DN 200 (8")	650 & 1000	1600	50
	1600	2500	130

Optionally, high frequency flow proportional pulses can be generated (HF3 and HF4): approximately 60 to 315 Hz at Q_{max}

Extremely low weight of the IGTM-WT due to the wafer form (to be clamped between the pipe flanges) and the body is made of durable aluminium.

Accurate and affordable.



vemmtec
Messtechnik GmbH

- IGTM-WT for industrial gas flow measurement
- Diameter DN 50 (2"), DN 65 (2.5"), DN 80 (3"), DN 100 (4"), DN 150 (6"), DN200 (8")
- Flow rate from 10 m³/h to 2500 m³/h
- Pressure rating PN 10/16 and ANSI 150# RF
- The meter is clamped between two flanges
- Volume measurement with 8-digit mechanical counter
- Pulse transmitter options: 2 Reed switches (1R1, 2R1, 1R10, 2R10) and 2 NAMUR proximity sensors (HF3 and HF4)
- Lightweight anodized aluminium body
- Insensitive to upstream flow disturbances
- Lifetime lubricated bearings for DN 50 (2") to DN 100 (4")
- CE and EN 97/23/EC PED compliant
- IP 65 protection
- Suitable for all non-aggressive gases
- Electronic volume converters (PTZ-BOX) can optionally be provided
- Accuracy: $\pm 1,5\%$ für $0,2 Q_{\max} \leq Q \leq Q_{\max}$
 $\pm 3\%$ für $Q_{\min} \leq Q \leq 0,2 Q_{\max}$
- Repeatability: $\pm 0.1\%$ or better
- Calibration and material certificates can be provided
- Materials of construction
 - Housing: aluminium EN-AW5083 (AlMg4.5Mn0.7)
 - Index head housing, flow conditioner, bearing block, and turbine wheel: aluminium
 - Bearings, magnetic coupling, and main shaft: stainless steel

DN [mm] (Inch)	Size G	A [m ³ /h]	B [m ³ /h]	D Diameter [mm]	H + ½D Height [mm]	L Length [mm]	Weight [kg]	k-factor 1R1 Reed switch [imp/m ³]	k-factor *) HF3 NAMUR Sensor (option) approx.	
									[imp/m ³]	[Hz]
DN 50 (2")	40 & 65	31.5	87	102	229	120	3.6	10	4400	120
DN 65 (2.5")	100	31.5	87	122	250	120	4.7	10	7200	315
DN 80 (3")	100 & 160	26.5	82	138	266	120	5.1	1	1200	80
	250							1	670	70
DN 100 (4")	160 & 250	51	123	158	286	150	6.8	1	800	90
	400							1	440	80
DN 150 (6")	400 & 650	57	146	216	343	180	12.8	1	360	100
	1000							0.1	135	60
DN 200 (8")	650 & 1000	69	150	270	397	200	19.2	0.1	150	70
	1600							0.1	80	60

*) The final k-factor will be mentioned at the meter's pulse label and in the calibration certificate.



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