

IGTM – Wafer Type

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.

BELL
 Flow Systems
 www.bellflowsystems.com



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

Optionally, high frequency flow proportional pulses can be generated:
 approximately 50 to 120 Hz at Q_{max} (HF3)

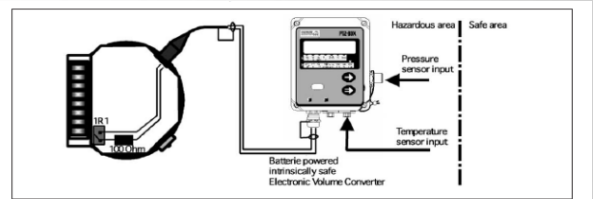
Extremely low weight of the IGTM-WT due to the wafer form, to be clamped between the pipe flanges, and because the body is made of durable aluminium

3 DN upstream and 2 DN downstream recommended for optimized flow measurement

Accurate and affordable



- IGTM-WT for industrial gas flow measurement applications
- Diameter DN 50, DN 80, DN 100, DN 150 (2", 3", 4", 6")
- Flow rates from 10 m³/h to 1600 m³/h
- PN10/16 and ANSI 150# RF applications
- Volume measurement with 8-digit mechanical counter
- Several electronic pulse transmitter options
- The meter is clamped between two flanges
- Lightweight anodized aluminium body
- Insensitive to upstream flow disturbances
- Lifetime lubricated bearings for DN 50 (2") to DN 100 (4")
- Short piping required: 3 DN upstream and 2 DN downstream
- CE and EN 97/23/EC PED compliant
- IP 65 protection and suitable for Zone I
- All non-aggressive gases
- Electronic pulsers and volume converter (EVC) optionally provided
- Accuracy: $\pm 1\%$ for $0.2 Q_{max} \leq Q \leq Q_{max}$
 $\pm 2\%$ for $Q_{min} \leq Q < 0.2 Q_{max}$
- Repeatability: $\pm 0.1\%$ or better
- Calibration and material certificates can be provided
- Materials of construction
 - Housing: aluminium AlMg0.3
 - Index head housing, flow deflector, bearing block, rotor: aluminium
 - Bearings, magnetic coupling, main shaft: stainless steel



DN [mm] (Inch)	Size G	Q _{max} [m ³ /h]	Q _{min} [m ³ /h]	D Diameter [mm]	H Height [mm]	L Length [mm]	Weight [kg]	k-Factor 1R1 Reed switch [imp/m ³]	k-Factor *) HF3 NAMUR sensor (option) [imp/m ³] [Hz]	
DN 50 (2")	40	65	13	102	176	120	3.6	10	4400	80
	65	100	10					10	4400	120
DN 80 (3")	100	160	8	138	197	120	5.1	1	1200	50
	160	250	13					1	1200	80
	250	400	20					1	670	70
DN 100 (4")	160	250	13	158	207	150	6.8	1	800	60
	250	400	20					1	800	90
	400	650	32					1	440	80
DN 150 (6")	400	650	32	216	235	180	12.8	1	360	70
	650	1000	50					1	360	100
	1000	1600	80					0.1	135	60

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