

## DATA SHEET

### IGTM Wafer Pattern Type Gas Meter

- DN50 (2") – DN200 (8")
- Pulse Output available
- Lightweight aluminium body
- IP65 Protection
- Suitable for non-aggressive gases



The IGTM Gas Meter is an industrial gas turbine meter for accurate volume and flow measurement. The IGTM counts the increment of gas volume flowing through an annular passage in the meter. The volume of gas is then totalized on a mechanical counter.

The operation of the IGTM is based on the measurement of the velocity of the gas. The rotation of the turbine wheel and the main shaft drive the eight digit mechanical counter in the index head. The rotating turbine wheel also generates pulses directly by proximity sensors that create a pulse for each passing turbine blade. By accumulating the pulses, the total passed volume and gas flow rate can be calculated.

The meter, as a standard, should be installed horizontally. However, meters up to DN100 (4") can be installed Vertically. A vertical mounting kit is available upon request.

The IGTM should be installed indoors, however if the meter must be installed outdoors it must be protected from direct sunlight and rain.

For the most accurate results the IGTM should be installed in a straight pipe section of equal nominal diameter to the meter. The axis of the meter should be concentric and identical to the piping axis.

To protect the meter from debris and subsequent damage to the turbine, we would highly recommend installing a top hat filter before the meter.

DN [mm] (Inch)	Size G	Q <sub>max</sub> [m <sup>3</sup> /h]	Q <sub>min</sub> [m <sup>3</sup> /h]	D Diameter [mm]	H Height [mm]	L Length [mm]	Weight [kg]	k-Factor		
								1R1 Reed switch [imp/m <sup>3</sup> ]	k-Factor *) HF3 NAMUR sensor (option) [imp/m <sup>3</sup> ]   [Hz]	
DN 50 (2")	40 & 65	100	10	102	227	120	3.6	10	4400	120
DN 65 (2½")	100	160	13	122	237	120	4.7	10	7200	315
DN 80 (3")	100 & 160 250	250	10	138	266	120	5.1	1	1200	80
		400	20					1	670	70
DN 100 (4")	160 & 250 400	400	13	158	286	150	6.8	1	800	90
		650	32					1	440	80
DN 150 (6")	400 & 650 1000	1000	32	216	343	180	12.8	1	360	100
		1600	80					0.1	135	60
DN 200 (8")	650 & 1000 1600	1600	50	270	397	200	19.2	0.1	145	65
		2500	130					0.1	80	55

IT IS RECOMMENDED THAT A TOP HAT FILTER IS FITTED TO PROTECT THE METER FROM DUST PARTICLES AND DEBRIS

Accuracy: ± 1.5 % for 0.2 Q<sub>max</sub> ≤ Q ≤ Q<sub>max</sub>  
 ± 3 % for Q<sub>min</sub> ≤ Q < 0.2 Q<sub>max</sub>