



SMOOTH FLOWMETERS

OMEGA RPD GAS FLOWMETER

Advantages of gas meters with mechanical counting device

- Safety and reliability
- Modern construction and design
- Small Size
- Stable metrological characteristics over the entire service life
- Resistant to ambient humidity to 98% at 25^{about} C
- Work reliably when the density changes, pressure and gas flow rate
- Easy to use and maintain.
- Easily and securely mounted to the gas system



Operating Principle

Two figure eight shaped rotors are geared through external synchronization gears.. For every full revolution, each rotor transports a defined volume from inlet to outlet. The rotors in turn drive a counter. The counter is geared to indicate the volume passed through the meter in the appropriate units.

Specifications counters with a mechanical counting device

MODEL	G2,5	G4	G6	G10
Nominal volumetric flow rate (Q), m3 / h	2.5	4	6	10
The maximum volumetric flow rate (Qmax), m3/h	4	6	10	16
Minimum volume flow rate (Qmin), m3 / h	0.06	0.06	0.08	0.30
Sensitivity threshold (start metering) (Qstart), m3 / h	0.012	0,016	0,016	0.04
Limits of permissible relative error during manufacture, in% range:				
-Qmin <= the Q <2Qmin	3	3	3	3
- 2Qmin <= the Q <= Qmax	2.0	2.0	2.0	2.0
Maximum overpressure gas to be measured. kPa	50			300
Nominal diameter fittings (pipe), mm	20			32
Dimensions, mm	(Or custom)			
Weight kg	2.3		3.0	
Average service life, years, not less	20			
Guaranteed service life, years, not less	5			
Ambient temperature and the medium. FROM	-25 to +50			
Materials housings and rotors	aluminum alloys			