

OMP Series.

Robust solution for diesel oil and heavy oil.

Affordable device, for maritime applications and more. The OMP series flowmeters are designed specifically for fuel consumption measurement for marine as well as others, and can be used in booster modules and burners. Another perfect combination of precision and robustness: Due to the precise measurement chamber volume, a broad range of measurements with a precision rate of 0.1 % can be achieved. Pipe bends and T-sections have no influence on the measurement precision.

The extreme robustness is achieved by the spheroidal graphite iron housing, which provides optimal protection for the precisely manufactured, fast measuring screws. KRAL measurement devices run with low friction and minimal pressure loss. Long lifespan, resistance to pulsations in the media, and efficiency across the entire product life cycle are just a few of the benefits that OMP offers.



Marine.
Fuel consumption measurement for motors, generators, booster modules, boiler, burners.

Technical data.		OMP-013.	OMP-020.	OMP-032.	OMP-052.
Nominal diameter. DN[mm]		15	20	25/32	40
	DN [inch]	½	¾	1	1 ½
Total length with DIN flange.					
	[mm]	115	125	180/190	240
Weight with DIN flange.					
	[kg]	4	5	11/13	19
Flow rate l/h.	Q _{max}	900	2,700	9,000	31,500
	Q _{nom}	600	1,800	6,000	21,000
	Q _{min}	6	18	60	210
Flow rate l/min.	Q _{max}	15	45	150	525
	Q _{nom}	10	30	100	350
	Q _{min}	0.1	0.3	1.0	3.5
Max. pressure.	[bar]	40	40	40	40
Temperature.	[°C]	-20 to +200	-20 to +200	-20 to +200	-20 to +200
Viscosity.	[mm²/s]	1 to 1x10 ⁶	1 to 1x10 ⁶	1 to 1x10 ⁶	1 to 1x10 ⁶
Precision of measurement value.		±0.1 %	±0.1 %	±0.1 %	±0.1 %
Repeatability.		±0.01 %	±0.01 %	±0.01 %	±0.01 %
K-factor.	K [P/l]	1,214	321.0	78.0	17.73
Frequency.	f at Q _{nom} [Hz]	202	161	130	104



- Technical data.
- Media: Chemically neutral, lubricating, clean, non-abrasive.
 - Flow direction detection: Expanded sensor range optional.
 - Temperature measurement: Additional sensor optional.
 - Signal: PNP or Namur.
 - Signal detection: Via the screw.
 - Process fittings: DIN, ANSI, thread, further connections upon request.

- Your benefits.
- Suitable for MDO, MGO, HFO and further types of oil.
 - High precision.
 - Very robust and long lifespan.
 - Low friction and minimal loss of pressure.
 - Stabilization zones unnecessary.
 - Easy installation.
 - Affordable solution for harsh industrial conditions.

- Materials.
- Housing: Spheroidal graphite iron.
 - Screws: Nitrided steel.
 - Bearings: Steel or hybrid ball bearings.
 - Sealing: FKM, other seal materials upon request.

Sensor.	BEG 45C with BEV 13.	BEG 47G.	BEG 56A.
Application.	High pressures, wide temperature range.	Ex-range.	Standard.
K-factor.	K1.	K1.	K1.
Signal.	PNP.	Namur.	PNP.
Temperature. [°C]	-40 to +250.	-25 to +100.	-40 to +125.
Max. pressure. [bar]	420	40	40