

GR/PRINTO

OPTIFLUX 1000

Electromagnetic Flow Sensor

The economical solution in sandwich design



Electromagnetic flowmeters

Variable area flowmeters
Mass flowmeters
Ultrasonic flowmeters
Vortex flowmeters
Flow controllers
Level measuring instruments
Pressure and temperature
Heat metering
Communications technology
Switches, counters, displays and recorders
Engineering systems & solutions

Subject to change without notice.

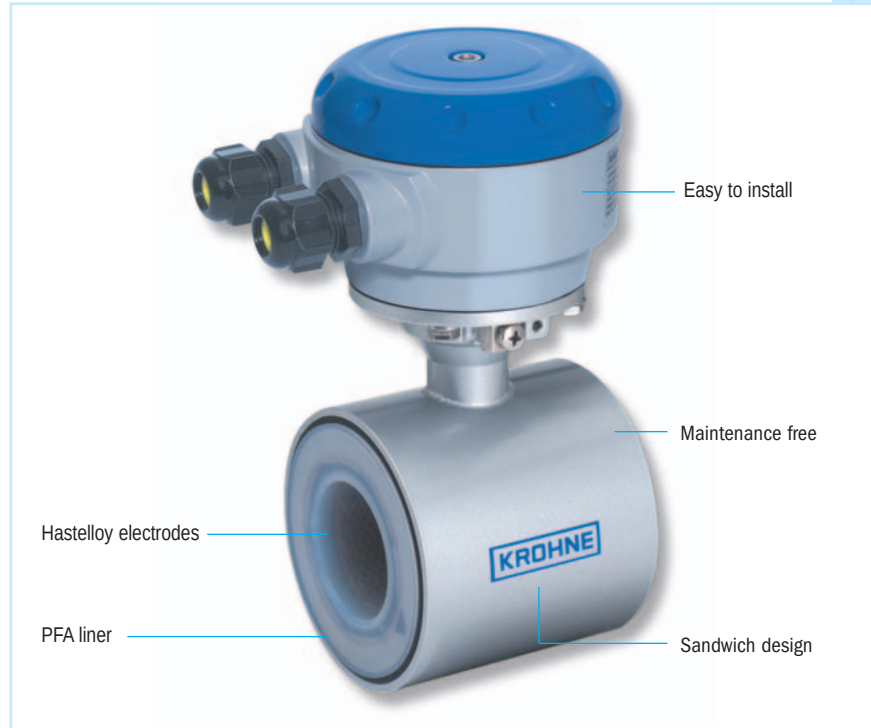


OPTIFLUX 1000

The economical solution

The OPTIFLUX 1000 electromagnetic flow sensor is an economical solution for a wide range of applications.

The flowmeter can be used in applications (including various aqueous solutions), where other measurement techniques were previously used.



Fields of application

Industries

- Water distribution
- (Waste) water treatment
- HVAC
- Agriculture
- Machinery

Application examples

- Water circulation and treatment e.g. in swimming pools and recreation facilities
- Sprinkler irrigation systems
- Fertilizer distribution
- Fire fighting systems
- Buildings and offices

OPTIFLUX 1000

The economical solution

Highlights

- Basic and fully functional sandwich flowmeter for a wide range of applications
- Quick and easy to install and operate
- Favorable price-performance ratio

Product features

- Flangeless sandwich design
- Standard materials:
 - PFA liner
 - Hastelloy electrodes
- Excellent chemical resistance
- Maintenance free
- Minimum conductivity of 5 $\mu\text{S}/\text{cm}$



Technical data

● Standard ○ Optional - On request

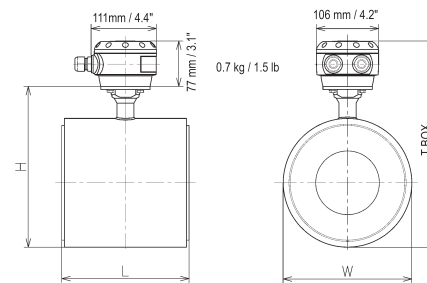
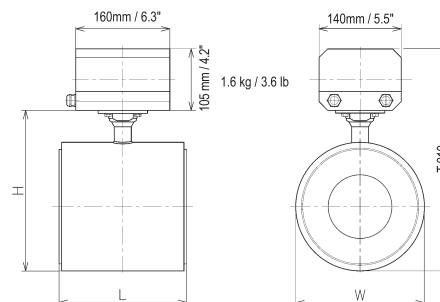
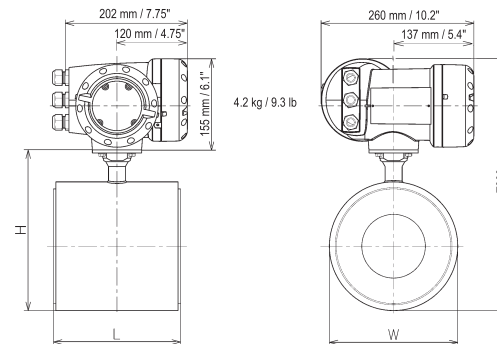
Nominal diameter	ANSI [inch]	3/8"	1/2"	1"	1 1/2"	2"	3"	4"	6"
	DN [mm]	10	15	25	40	50	80	100	150
Process flange standard*	EN 1092-1 - PN 40	●	●	●	●	●	●	-	-
	EN 1092-1 - PN 16	-	-	-	-	-	-	●	●
	ANSI B16.5 - 150 lbs RF	●	●	●	●	●	●	●	●
	ANSI B16.5 - 300 lbs RF	○	○	○	○	○	○	○	-
	JIS 20 K	●	●	●	●	●	●	●	-
	JIS 10 K	-	-	-	-	-	-	-	●
* OPTIFLUX 1000 Pressure limits in separate table. Note: 3/8" (DN 10) requires 1/2" (DN 15) process flanges.									
Liner	PFA	●	●	●	●	●	●	●	●
Electrodes	Hastelloy C4	●	●	●	●	●	●	●	●
Grounding rings	Integrated st. st. 1.4571 (AISI 316 Ti)	●	●	-	-	-	-	-	-
	Separate st. st. 1.4571 (AISI 316 Ti)	-	-	○	○	○	○	○	○
Stud bolts and nuts*	Rubber centering sleeves	-	-	-	●	●	●	●	●
	Steel	○	○	○	○	○	○	○	○
	Stainless steel	○	○	○	○	○	○	○	○
* Gaskets not included.									
Materials used*	Measuring tube	Austenitic stainless steel							
	Housing (polyurethane coated)	GTW-S 38				Sheet steel			
	Connection box (polyurethane coated)	Die-cast aluminum							
* Other materials on request.									
Protection category	Standard	IP 66 / 67 eq. NEMA 4/4X / 6							
	Optional	IP 68 eq. NEMA 6							
Insulation class		E							
Approvals*	Non-Ex	●							
	FM - class I, II, III - div. 2	○							
	CSA - Ordinary location	○							
	CSA - class I, II, III div. 2	○							
	* for flow sensor only. Note: contact KROHNE for more approval details								
Versions	Compact + IFC 300 C	●							
	Separate + IFC 300 F, R, W	●							
	Compact + IFC 010 C	●							
	Separate + IFC 010 W	●							
Vacuum load		0 psi / 0 mbar absolute							
Electrical conductivity	Non-water	min. 5 μ S/cm							
	Water	min. 20 μ S/cm							

Process flange standard	Operating pressure			
	min.	max.	min.	max.
ANSI B16.5 - 150 lbs RF	0	- 232	psig	0 - 16 bar
ANSI B16.5 - 300 lbs RF	0	- 232	psig	0 - 16 bar
EN 1092-1 - PN 16	0	- 232	psig	0 - 16 bar
EN 1092-1 - PN 40	0	- 232	psig	0 - 16 bar
JIS 10 K	0	- 145	psig	0 - 10 bar
JIS 20 K	0	- 232	psig	0 - 16 bar

Temperature range

	Process		Ambient	
	min.	max.	min.	max.
Separate flow sensor	-13°F	248°F	-13°F	140°F
Compact with IFC 300 OPTIFLUX 1300 C	-13°F	248°F	-13°F	122°F
Compact with IFC 010 OPTIFLUX 1010 C	-13°F	248°F	-13°F	104°F

	Process		Ambient	
	min.	max.	min.	max.
Separate flow sensor	-25°C	120°C	-25°C	60°C
Compact with IFC 300 OPTIFLUX 1300 C	-25°C	120°C	-25°C	50°C
Compact with IFC 010 OPTIFLUX 1010 C	-25°C	120°C	-25°C	40°C

Dimensions and weights
OPTIFLUX 1000 F

OPTIFLUX 1010 C

OPTIFLUX 1300 C


Nominal size DN	Dimensions in mm						Approx. weight in kg*
	L	H	W	T _{box}	T ₀₁₀	T ₃₀₀	
10	68	137	47	214	242	292	1.7
15	68	137	47	214	242	292	1.7
25	54	147	66	224	252	302	1.7
40	78	162	82	239	267	317	2.6
50	100	151	101	228	256	306	4.2
80	150	180	130	257	285	335	5.7
100	200	207	156	284	312	362	10.5
150	200	271	219	348	376	426	15.0

* Approx. weight of meter body.

Nominal size ANSI	Dimensions in inch						Approx. weight in lbs*
	L	H	W	T _{box}	T ₀₁₀	T ₃₀₀	
3/8"	2.68	5.39	1.85	8.43	9.53	11.50	3.7
1/2"	2.68	5.39	1.85	8.43	9.53	11.50	3.7
1"	2.13	5.79	2.60	8.82	9.92	11.89	3.7
1 1/2"	3.07	6.38	3.23	9.41	10.51	12.48	5.7
2"	3.94	5.94	3.98	8.98	10.08	12.05	9.3
3"	5.91	7.09	5.12	10.12	11.22	13.19	12.6
4"	7.87	8.15	6.14	11.18	12.28	14.25	23.1
6"	7.87	10.67	8.62	13.70	14.80	16.77	33.1

* Approx. weight of meter body.

The complete OPTIFLUX - range

OPTIFLUX converters

All converters fit to all sensors

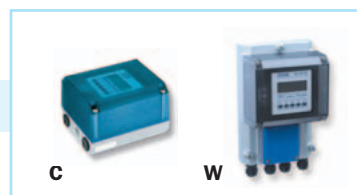
IFC 300

One for all applications



IFC 010

Economic converter



OPTIFLUX sensors

OPTIFLUX 2000

Water and waste-water specialist



OPTIFLUX 4000

All-round process specialist



OPTIFLUX 5000

Highly accurate & abrasion resistant



OPTIFLUX 1000

Economical solution



OPTIFLUX 6000

Sanitary and hygienic solution



Special-purpose flowmeters

OPTIFLUX 4040 C

The 2-wire EMF



OPTIFLUX 7300 C

The electrode-free EMF



TIDALFLUX 4110 PF

For partially filled pipelines



BATCHFLUX 5015 C

For volumetric filling



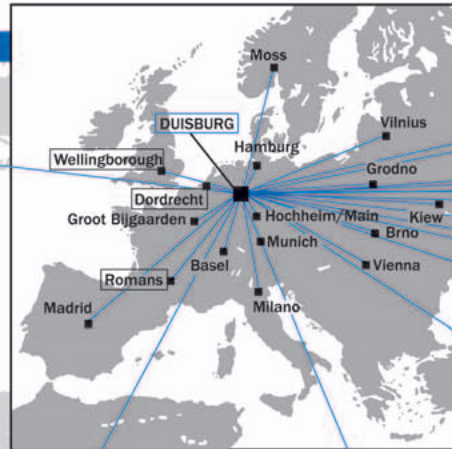




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