



OPTIFLUX 4000

Technical Datasheet

Electromagnetic Flow Sensor

- Standard flow sensor for the process industry
- 250,000 units in operation
- For demanding applications: High temperatures, low conductivity; all Ex-approvals
- Robust and reliable



KROHNE

Standard solution for the process industry

The OPTIFLUX 4000 electromagnetic flow sensor is the standard in process industry. OPTIFLUX 4000 is suitable even for demanding applications.



- ① All Ex approvals
- ② Most dimensionally stable PFA liner with stainless steel mesh
- ③ Housing and flanges available in stainless steel

Highlights

- Standard device in the process industry
- Robust and reliable
- More than 250,000 units operating in the field
- Works reliably under demanding conditions: High temperatures (up to 180°C / 356°F) and low conductivity (non-water from 1 $\mu\text{S}/\text{cm}$, water from 20 $\mu\text{S}/\text{cm}$)
- Quick and easy to install and operate
- Chemically resistant to alkaline solutions and acids
- Hazardous area versions available

Industries

- Chemicals
- Pulp & Paper
- Water
- Wastewater
- Minerals & Mining
- Iron, Steel & Metals
- Pharmaceuticals

Applications

- For clean liquids
- For slurries and pastes with high solids content
- For abrasive and aggressive products

Electromagnetic product range

OPTIFLUX converters: All converters fit to all sensors



1



2

1 IFC 300 High-performance solution

2 IFC 010 Economical solution

OPTIFLUX sensors



1



2



3



4



5

1 OPTIFLUX 1000 Economical solution

2 OPTIFLUX 2000 Solution for the water and wastewater industry

3 OPTIFLUX 4000 Standard solution for the process industry

4 OPTIFLUX 5000 Solution with high-tech ceramics

5 OPTIFLUX 6000 Sanitary and hygienic solution

Special-purpose flowmeters



1



2



3



4



5

1 WATERFLUX 2070 Battery powered watermeter solution

2 OPTIFLUX 4040 C 2-wire solution

3 TIDALFLUX 4110 PF Solution for partially filled pipelines

4 BATCHFLUX 5015 C Solution for volumetric filling

5 OPTIFLUX 7300 C Electrode-free solution

Technical data

Nominal diameter	VN02						VN03						VN04						VN05													
ASME [inch]	1/10"	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"	56"	64"	72"	80"
DN [mm]	2.5	4	6	10	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800	2000

Nominal flange pressure

EN 1092-1 - PN 40	[Shaded]															[Shaded]																
EN 1092-1 - PN 25	[Shaded]															[Shaded]																
EN 1092-1 - PN 16	[Shaded]															[Shaded]																
EN 1092-1 - PN 10	[Shaded]															[Shaded]																
EN 1092-1 - PN 6	[Shaded]															[Shaded]																
ISO insertion length	[Shaded]															[Shaded]																
ASME B16.5 - 150 lbs RF	[Shaded]															[Shaded]																
ASME B16.5 - 300 lbs RF	[Shaded]															[Shaded]																
ASME B16.5 - 600 lbs RF	[Shaded]															[Shaded]																
ASME B16.5 - 900 lbs RF	[Shaded]															[Shaded]																
ASME B16.5 - 1500 lbs RF	[Shaded]															[Shaded]																
JIS 10 K	[Shaded]															[Shaded]																
JIS 20 K	[Shaded]															[Shaded]																
DN > 2000 / 80" on request.																																
DN 2.5 - 6 (1/10" - 1/4"): DN 10 or 15 (3/8" or 1/2") connection, SS Duplex (1.4462).																																
With ASME B16.5 150 lbs RF flanges DN 700 - 1000 (28" - 40") ≤ 10 bar.																																
With ASME B16.5 150 lbs RF flanges DN 1200 - 2000 (48" - 80") ≤ 6 bar.																																
N.B. for vacuum load see separate table.																																

Liner

PTFE	[Shaded]															[Shaded]																
PFA	[Shaded]															[Shaded]																
ETFE	[Shaded]															[Shaded]																
PU (Irrathane)	[Shaded]															[Shaded]																
Hardrubber (Ex only)	[Shaded]															[Shaded]																

Electrodes

Hastelloy C4	[Shaded]																																
Hastelloy B2	[Shaded]																																
Platinum	[Shaded]																																
Stainless steel 316 Ti (1.4571)	[Shaded]																																
Titanium	[Shaded]																																
Tantalum	[Shaded]																																
Low noise HC4	[Shaded]																																
Low noise SS 316 Ti (1.4571)	[Shaded]																																
N.B. Other materials on request.																																	

Nominal diameter	VN02						VN03						VN04						VN05													
ASME [inch]	1/10"	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"	56"	64"	72"	80"
DN [mm]	2.5	4	6	10	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800	2000

Grounding rings

Stainless steel 316 Ti (1.4571)*	[Shaded]																															
Hastelloy C4**	[Shaded]																															
Hastelloy B2**	[Shaded]																															
Titanium**	[Shaded]																															
Tantalum (ring Nr1 and Nr2 only)	[Shaded]																															
	* DN 2.5 - 6: ring Nr1 available; DN 10 - 2000: ring Nr1, 2 and 3 available.																															
	** Ring Nr.1, 2 and 3 available.																															

Flanges

Steel 1.0460 (C 22,8)	[Shaded]																															
Steel 1.0038 (RSt37-2)	[Shaded]																															
Stainless steel 1.4306 (304)	[Shaded]																															
Stainless steel 1.4404 (316 L)	[Shaded]																															
Stainless steel 1.4571 (316 Ti)	[Shaded]																															

Materials

Measuring tube - stainless steel	[Shaded]																															
Housing (polyurethane coated)	[Shaded]																															
- Stainless steel Duplex (1.4462)	[Shaded]																															
- GTW-S 30	[Shaded]																															
- Sheet steel	[Shaded]																															
- Stainless steel 304 (1.4306)	[Shaded]																															
Connection box (F-versions only)	[Shaded]																															
- Aluminum, polyurethane coated	[Shaded]																															
- Stainless steel 304 (1.4306)	[Shaded]																															
	Other materials on request.																															

Protection category

IP 66 / 67 eq. NEMA 4/4X / 6	[Shaded]																															
IP 68 field eq. NEMA 6P	[Shaded]																															
IP 68 factory eq. NEMA 6P	[Shaded]																															
	N.B. IP 68 is only available with a stainless steel connection box.																															

Nominal diameter	VN02						VN03						VN04						VN05													
ASME [inch]	1/10"	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"	56"	64"	72"	80"
DN [mm]	2.5	4	6	10	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800	2000

Approvals

Non-Ex	[Standard]																															
EEx zone 1 / 2	[Optional]																															
FM - class I div. 2	[Optional]																															
CSA - GP / class I div. 2	[Optional]																															
SAA - Aus Ex zone 1 / 2	[On request]																															
TIIS - zone 1 / 2	[On request]																															
Please note the approvals are for flow sensors only.																																

Versions

Compact + IFC 300 C	[Standard]																															
Separate + IFC 300 F, R, W	[Standard]																															
Compact + IFC 010 C	[Standard]																															
Separate + IFC 010 W	[Standard]																															

Conductivity

Non-water	>10 µS	min. 1 µS/cm
Water	min. 20 µS/cm	

■ standard
 ■ optional
 on request

Temperature range

Temperature range	Process [°C]		Ambient [°C]		Process [°F]		Ambient [°F]	
	min.	max.	min.	max.	min.	max.	min.	max.

PTFE

Separate flow sensor (OPTIFLUX 4000 F)	-40	180	-40	65	-40	356	-40	149
Compact with IFC 300 (OPTIFLUX 4300 C)	-40	140	-40	65	-40	284	-40	149
Compact with IFC 010 (OPTIFLUX 4010 C)	-40	120	-25	60	-40	248	-13	140

PFA

Separate flow sensor (OPTIFLUX 4000 F)	-40	180	-40	65	-40	356	-40	149
Compact with IFC 300 (OPTIFLUX 4300 C)	-40	140	-40	65	-40	284	-40	149
Compact with IFC 010 (OPTIFLUX 4010 C)	-40	120	-25	60	-40	248	-13	140

ETFE

Separate flow sensor (OPTIFLUX 4000 F)	-40	120	-40	65	-40	248	-40	149
Compact with IFC 300 (OPTIFLUX 4300 C)	-40	120	-40	65	-40	248	-40	149
Compact with IFC 010 (OPTIFLUX 4010 C)	-40	120	-25	60	-40	248	-13	140

Hardrubber

Separate flow sensor (OPTIFLUX 4000 F)	-5	80	-25	65	23	176	-13	149
Compact with IFC 300 (OPTIFLUX 4300 C)	-5	80	-40	65	23	176	-40	149
Compact with IFC 010 (OPTIFLUX 4010 C)	-5	80	-25	60	23	176	-13	140
N.B. Hardrubber liner is available for Ex-versions only								

Irathane

Separate flow sensor (OPTIFLUX 4000 F)	-5	65	-25	65	23	149	-13	149
Compact with IFC 300 (OPTIFLUX 4300 C)	-5	65	-40	65	23	149	-40	149
Compact with IFC 010 (OPTIFLUX 4010 C)	-5	65	-25	60	23	149	-13	140

Dimensions and Weights

Nominal size		Dimensions [mm]							Approx. weight
DN	PN	L		H	W	T			[kg]
[mm]	[bar]	DIN	ISO			box	010	300	

DN2,5...20

2,5	40	130	-	142	90	220	-	299	3
4	40	130	-	142	90	220	-	299	3
6	40	130	-	142	90	220	-	299	3
10	40	150	-	106	90	184	211	263	6
15	40	150	200	106	95	184	211	263	6
20	40	150	200	158	105	236	263	315	7

DN25...150

25	40	150	200	140	115	218	245	297	5
32	40	150	200	157	140	235	262	314	6
40	40	150	200	166	150	244	271	323	7
50	40	200	200	186	165	264	291	343	11
65	16	200	200	200	185	278	305	357	9
80	40	200	200	209	200	287	314	366	14
100	16	250	250	237	220	315	342	394	15
125	16	250	250	266	250	344	371	423	19
150	16	300	300	300	285	378	405	457	27

DN200...600

200	10	350	350	361	340	439	466	518	34
250	10	400	450	408	395	486	513	565	48
300	10	500	500	458	445	536	563	615	58
350	10	500	550	510	505	588	615	667	78
400	10	600	600	568	565	646	673	725	101
450	10	600	-	618	615	696	723	775	111
500	10	600	-	671	670	749	776	828	130
600	10	600	-	781	780	859	886	938	165

DN700...2000

700	10	700	-	898	895	976	1003	1055	248
800	10	800	-	1012	1015	1090	1117	1169	331
900	10	900	-	1114	1115	1192	1219	1271	430
1000	10	1000	-	1225	1230	1303	1330	1382	507
1200	6	1200	-	1417	1405	1495	-	1574	555
1400	6	1400	-	1619	1630	1697	-	1776	765
1600	6	1600	-	1819	1830	1897	-	1976	1035
1800	6	1800	-	2027	2045	2105	-	2184	1470
2000	6	2000	-	2259	2265	2337	-	2416	1860

Nominal size		Dimensions 150lbs [inch]						Approx.
ASME	PN	L	H	W	T			weight
[inch]	[psi]				box	010	300	[lbs]

DN0,1" ...0,75"

1/10"	284	5,12	5,59	3,5	8,66	-	11,69	6
1/8"	284	5,12	5,59	3,5	8,66	-	11,69	6
1/4"	284	5,12	5,59	3,5	8,66	-	11,69	6
3/8"	284	5,91	5,08	3,5	8,15	9,21	11,26	12
1/2"	284	5,91	5,08	3,5	8,15	9,21	11,26	12
3/4"	284	5,91	5,28	3,88	8,35	9,41	11,46	18

DN1" ...6"

1"	284	5,91	5,39	4,25	8,46	9,53	11,57	18
1 1/2"	284	5,91	6,1	5	9,17	10,24	12,28	22
2"	284	7,87	7,05	5,98	10,12	11,18	13,23	29
3"	284	7,87	8,03	7,5	11,1	12,17	14,21	37
4"	284	9,84	9,49	9	12,56	13,62	15,67	51
5"	284	9,84	10,55	10	13,62	14,69	16,73	60
6"	284	11,81	11,69	11	14,76	15,83	17,87	75

DN8" ...24"

8"	284	13,78	14,25	13,5	17,32	18,39	20,43	95
10"	284	15,75	16,3	16	19,37	20,43	22,48	143
12"	284	19,69	18,78	19	21,85	22,91	24,96	207
14"	284	27,56	20,67	21	23,74	24,8	26,85	284
16"	284	31,5	22,95	23,5	26,02	27,09	29,13	364
18"	284	31,5	24,72	25	27,8	28,86	30,91	410
20"	284	31,5	26,97	27,5	30,04	31,1	33,15	492
24"	284	31,5	31,38	32	34,45	35,51	37,56	675
Pressures are applicable at 20 °C (68 °F)								
For higher temperatures, the pressure and temperature ratings are as per ASME B16.5 (up to 24") or ASME B16.47 (>24")								

Nominal size		Dimensions 150lbs [mm]						Approx.
ASME	PN	L	H	W	T			weight
[inch]	[psi]				box	010	300	[kg]

DN0,1" ...0,75"

1/10"	284	130	142	88,9	220	-	297	3
1/8"	284	130	142	88,9	220	-	297	3
1/4"	284	130	142	88,9	220	-	297	3
3/8"	284	150	129	88,9	207	234	286	6
1/2"	284	150	129	88,9	207	234	286	6
3/4"	284	150	134	98,6	212	239	291	8

DN1" ...6"

1"	284	150	137	108	215	242	294	8
1 1/2"	284	150	155	127	233	260	312	10
2"	284	200	179	152	257	284	336	13
3"	284	200	204	190,5	282	309	361	17
4"	284	250	241	228,6	319	346	398	23
5"	284	250	268	254	346	373	425	27
6"	284	300	297	279,4	375	402	454	34

DN8" ...24"

8"	284	350	362	342,9	440	467	519	43
10"	284	400	414	406,4	492	519	571	65
12"	284	500	477	482,6	555	582	634	94
14"	284	700	525	533,4	603	630	682	129
16"	284	800	583	596,9	661	688	740	165
18"	284	800	628	635	706	733	785	186
20"	284	800	685	698,5	763	790	842	223
24"	284	800	797	812,8	875	902	954	306
Pressures are applicable at 20 °C (68 °F)								
For higher temperatures, the pressure and temperature ratings are as per ASME B16.5 (up to 24") or ASME B16.47 (>24")								

Nominal size		Dimensions 300lbs [inch]						Approx. Weight
ASME	PN	L	H	W	T			
[inch]	[psi]				box	010	300	[lbs]

DN0,1" ...0,75"

1/10"	741	5,12	5,59	3,75	8,66	-	11,69	6
1/8"	741	5,12	5,59	3,75	8,66	-	11,69	6
1/4"	741	5,12	5,59	3,75	8,66	-	11,69	6
3/8"	741	5,91	5,24	3,75	8,31	9,37	11,42	15
1/2"	741	5,91	5,24	3,75	8,31	9,37	11,42	15
3/4"	741	5,91	5,67	4,62	8,74	9,8	11,85	20

DN1" ...6"

1"	741	5,91	5,71	4,87	8,78	9,84	11,89	18
1 1/2"	741	7,87	6,65	6,13	9,72	10,79	12,83	20
2"	741	9,84	7,32	6,5	10,39	11,46	13,5	29
3"	741	9,84	8,43	8,25	11,5	12,56	14,61	37
4"	741	11,81	10	10	13,07	14,13	16,18	51
6"	741	12,6	12,44	12,5	15,51	16,57	18,62	79

DN8" ...24"

8"	741	15,75	15,04	15	18,11	19,17	21,22	157
10"	741	19,69	17,05	17,5	20,12	21,18	23,23	247
12"	741	23,62	20	20,5	23,07	24,13	26,18	375
14"	741	27,56	21,65	23	24,72	25,79	27,83	474
16"	741	31,5	23,98	25,5	27,05	28,11	30,16	639
20"	741	31,5	28,46	30,5	31,54	32,6	34,65	937
24"	741	31,5	33,39	36	36,46	37,52	39,57	1345

Pressures are applicable at 20 °C (68 °F)

For higher temperatures, the pressure and temperature ratings are as per ASME B16.5 (up to 24") or ASME B16.47 (>24")

Nominal size		Dimensions 300lbs [mm]						Approx.
ASME	PN	L	H	W	T			weight
[inch]	[psi]				box	010	300	[kg]

DN0,1" ...0,75"

1/10"	741	130	142	95,2	220	-	297	3
1/8"	741	130	142	95,2	220	-	297	3
1/4"	741	130	142	95,2	220	-	297	3
3/8"	741	150	133	95,2	211	238	290	7
1/2"	741	150	133	95,2	211	238	290	7
3/4"	741	150	144	117,3	222	249	301	9

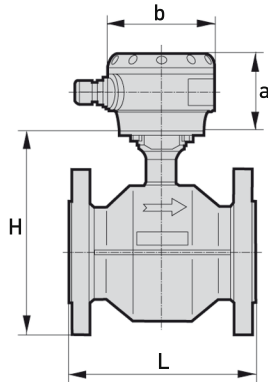
DN1" ...6"

1"	741	150	145	123,8	223	250	302	8
1 1/2"	741	200	169	155,6	247	274	326	9
2"	741	250	186	165,1	264	291	343	13
3"	741	250	214	209,6	292	319	371	17
4"	741	300	254	254	332	359	411	23
6"	741	320	316	317,5	394	421	473	36

DN8" ...24"

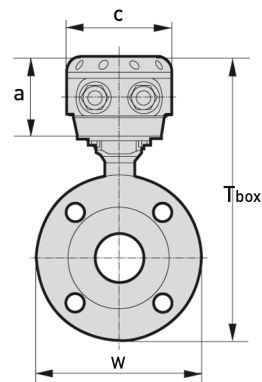
8"	741	400	382	381	460	487	539	71
10"	741	500	433	444,5	511	538	590	112
12"	741	600	508	520,7	586	613	665	170
14"	741	700	550	584,2	628	655	707	215
16"	741	800	609	647,7	687	714	766	290
20"	741	800	723	774,7	801	828	880	425
24"	741	800	848	914,4	926	953	1005	610
Pressures are applicable at 20 °C (68 °F)								
For higher temperatures, the pressure and temperature ratings are as per ASME B16.5 (up to 24") or ASME B16.47 (>24")								

Frontview OPTIFLUX 4000 F



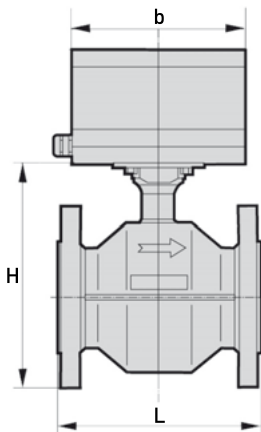
a = 77 mm / 3,1"
b = 106 mm / 4,2"

Sideview OPTIFLUX 4000 F



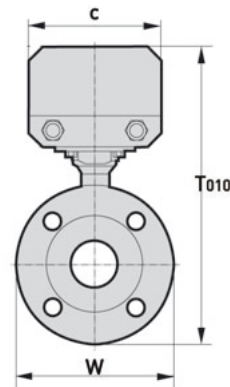
a = 77 mm / 3,1"
c = 106 mm / 4,2"

Frontview OPTIFLUX 4010 C



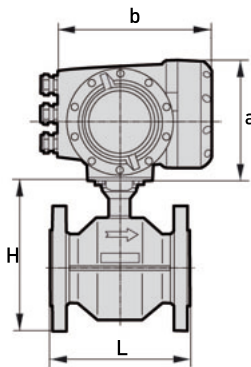
b = 160 mm / 6,3"

Sideview OPTIFLUX 4010 C



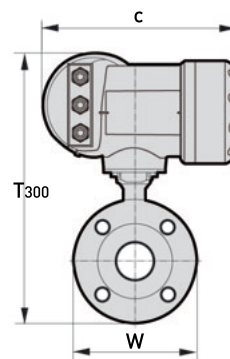
a = 105 mm / 4,2"
c = 140 mm / 5,5"

Frontview OPTIFLUX 4300 C



a = 155 mm / 6,1"
b = 202 mm / 7,8"

Sideview OPTIFLUX 4300 C



c = 260 mm / 10,2"

Vacuum load

Liner	Diameter [mm]	Max. pressure [bar]	Vacuum load in mbar abs. at a process temperature [°C] of ...									
			40	60	70	80	90	100	120	140	180	
PFA	DN 2.5 - 150	50	0	0	0	0	0	0	0	0	0	0
Hardrubber	DN 200 - 300	150	250	400	400	400	-	-	-	-	-	-
	DN 350 - 3000	150	500	600	600	600	-	-	-	-	-	-
ETFE	DN 200 - 2000	150	100	100	100	100	100	100	100	-	-	-
PTFE	DN 10 - 20	50	0	0	0	0	0	0	500	750	1000	-
	DN 200 - 300	50	500	750	1000	1000	1000	1000	1000	1000	1000	1000
PU	DN 350 - 600	50	800	1000	1000	1000	1000	1000	1000	1000	1000	1000
	DN 200 - 1800	1500	500	600	-	-	-	-	-	-	-	-

Liner	Diameter [inch]	Max. pressure [psi]	Vacuum load in psia at a process temperature [°F] of ...									
			104	140	158	176	194	212	248	284	356	
PFA	1/10" - 6"	725	0	0	0	0	0	0	0	0	0	0
Hardrubber	8" - 12"	2176	3,6	5,8	5,8	5,8	-	-	-	-	-	-
	14" - 120"	2176	7,3	8,7	8,7	8,7	-	-	-	-	-	-
ETFE	8" - 72"	2176	1,5	1,5	1,5	1,5	1,5	1,5	1,5	-	-	-
PTFE	3/8" - 3/4"	725	0	0	0	0	0	0	7,3	10,9	14,5	-
	8" - 12"	725	7,3	10,9	14,5	14,5	14,5	14,5	14,5	14,5	14,5	14,5
PU	14" - 24"	725	11,6	14,5	14,5	14,5	14,5	14,5	14,5	14,5	14,5	14,5
	8" - 72"	21756	7,3	8,7	-	-	-	-	-	-	-	-

Vacuum load

PFA	1/10" - 6"	725	0	0	0	0	0	0	0	0	0	0
Hardrubber	8" - 12"	2176	3,6	5,8	5,8	5,8	-	-	-	-	-	-
	14" - 120"	2176	7,3	8,7	8,7	8,7	-	-	-	-	-	-
ETFE	8" - 72"	2176	1,5	1,5	1,5	1,5	1,5	1,5	1,5	-	-	-
PTFE	3/8" - 3/4"	725	0	0	0	0	0	0	7,3	10,9	14,5	-
	8" - 12"	725	7,3	10,9	14,5	14,5	14,5	14,5	14,5	14,5	14,5	14,5
PU	14" - 24"	725	11,6	14,5	14,5	14,5	14,5	14,5	14,5	14,5	14,5	14,5
	8" - 72"	21756	7,3	8,7	-	-	-	-	-	-	-	-



KROHNE Product Overview

- Electromagnetic flowmeters
- Variable area flowmeters
- Mass flowmeters
- Ultrasonic flowmeters
- Vortex flowmeters
- Flow controllers
- Level measuring instruments
- Pressure gauges
- Temperature measuring instruments
- Water solutions & analysis
- Oil and gas turnkey solutions

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