

Electromagnetic Flow Meter

- Accurate bi-directional flow measurement
- No pressure loss during operation
- Works with conductive liquids (>5 $\mu\text{S}/\text{cm}$)
- 4...20mA, HART, RS485 Modbus and pulse output signals
- Galvanically isolated user programmable switching relays
- Flanges in ANSI, EN & Wafer up to 24"
- NPT and BSPP female & male up to 2"



About

The P86 electromagnetic flow meter delivers precise and reliable liquid flow measurement for a wide range of industrial applications. Designed for conductive fluids, it features bi-directional flow detection, no pressure loss, and a rugged build with advanced diagnostics. Its versatile configurations, from integrated to remote sensor designs, ensure optimal performance even under challenging conditions. Compatible with diverse liner and electrode materials, the P86 is ideal for processes requiring robust and adaptable flow monitoring solutions.

Applications

- ✓ Water and Wastewater Treatment
- ✓ Chemical Processing
- ✓ Power Plants
- ✓ Oil and Gas
- ✓ Irrigation Systems
- ✓ Cooling Systems
- ✓ Machine Manufacturing
- ✓ Food and Beverage
- ✓ Pulp and Paper
- ✓ Pharmaceuticals

Flow Ranges

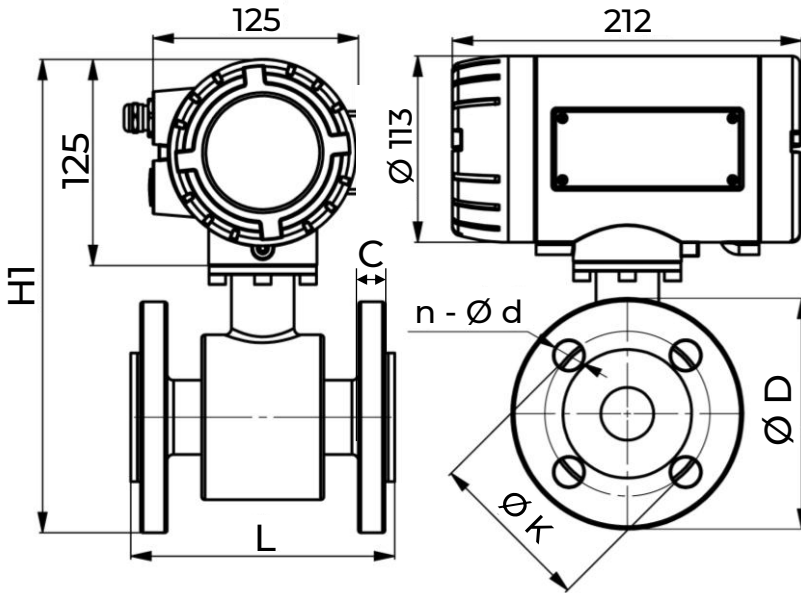
Flow Ranges					
Measuring Range		Extended Measuring Range		Pipe Nominal Diameter	
Gallons/minute	m ³ /h	Gallons/minute	m ³ /h	Inches	mm
0.37...12.4	0.085...2.8	0.063...15	0.0142...3.391	3/8"	DN10
0.84...28	0.2...6.4	0.14...33	0.032...7.63	1/2"	DN15
1.5...49	0.34...11	0.25...59	0.06...13.56	3/4"	DN20
2.33...77	0.53...17	0.4...93	0.09...21.2	1"	DN25
3.9...131	0.9...30	0.64...152	0.15...34.73	1 1/4"	DN32
6...199	1.4...45	1...238	0.23...54.26	1 1/2"	DN40
9.4...311	2.2...70	1.6...373	0.36...84.78	2"	DN50
16...525	3.6...119	2.3...630	0.60...143.28	2 1/2"	DN65
24...796	5.5...181	4...955	0.91...217.03	3"	DN80
38...1244	8.5...283	7...1493	1.41...339.12	4"	DN100
59...1944	13.3...442	10...2333	2.21...529.87	5"	DN125
84...2800	19...636	14...3360	3.18...763	6"	DN150
150...4977	34...1130	25...5970	5.65...1356	8"	DN200
234...7775	53...1766	39...9330	8.83...2119	10"	DN250
336...11196	76...2543	56...13438	12.72...3052	12"	DN300
458...15238	104...3461	77...18290	17.31...4154	14"	DN350
598...19906	136...4521	100...23886	22.61...5425	16"	DN400
756...25194	172...5722	126...30235	28.62...6867	18"	DN450
934...31107	212...7065	156...37328	35.33...8478	20"	DN500
1344...44791	305...10173	224...53751	50.87...12208	24"	DN600



ANSI Class 150 Dimensions

ANSI Class 150 Flange, ASME B16.5 with Integrated Transmitter

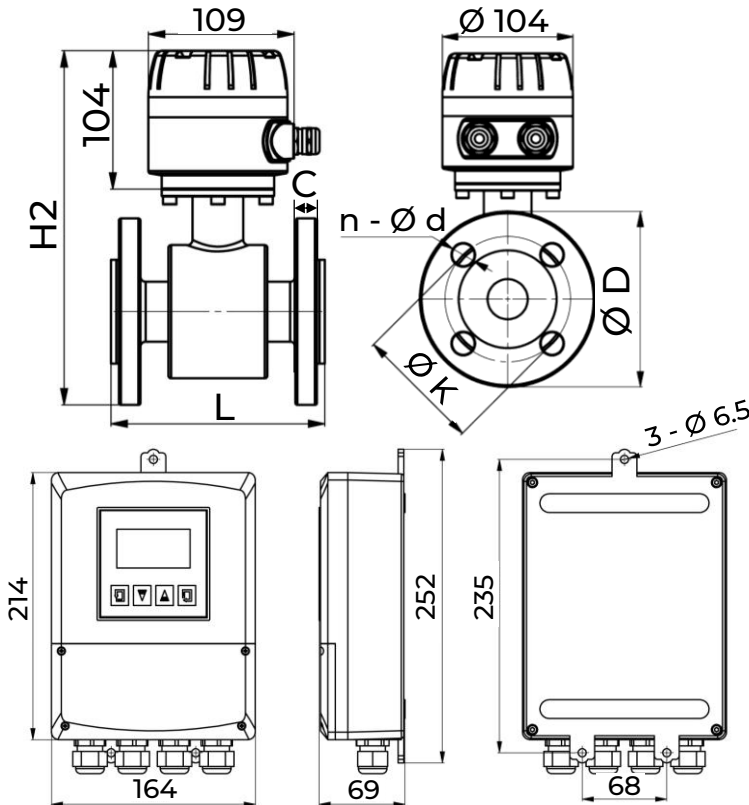
Dimensions (mm)



Size	L	H1	D	K	n - Ø d	C	Pressure Rating
3/8"	160	257	90	60.5	4 - Ø 16	11.5	Class 150
1/2"	160	257	90	60.5	4 - Ø 16	11.5	
3/4"	160	262	100	70	4 - Ø 16	13	
1"	160	267	110	79.5	4 - Ø 16	14.5	
1 1/4"	160	279	120	89	4 - Ø 16	16	
1 1/2"	200	289	130	98.5	4 - Ø 16	17.5	
2"	200	307	150	120.5	4 - Ø 18	19.5	
2 1/2"	200	332	180	139.5	4 - Ø 18	22.5	
3"	200	344	190	152.5	4 - Ø 18	24	
4"	250	374	230	190.5	8 - Ø 18	24	
5"	250	402	255	216	8 - Ø 22	24	
6"	300	432	280	241.5	8 - Ø 22	25.5	
8"	350	495	345	298.5	8 - Ø 22	29	
10"	400	554	405	362	12 - Ø 26	30.5	
12"	500	619	485	432	12 - Ø 26	32	
14"	500	674	535	476	12 - Ø 29.5	35	
16"	600	735	600	540	16 - Ø 29.5	37	
18"	600	776	635	578	16 - Ø 32.5	40	
20"	600	837	700	635	20 - Ø 32.5	43	
24"	600	945	815	749.5	20 - Ø 35.5	48	

ANSI Class 150 Flange, ASME B16.5 with Remote Transmitter

Dimensions (mm)

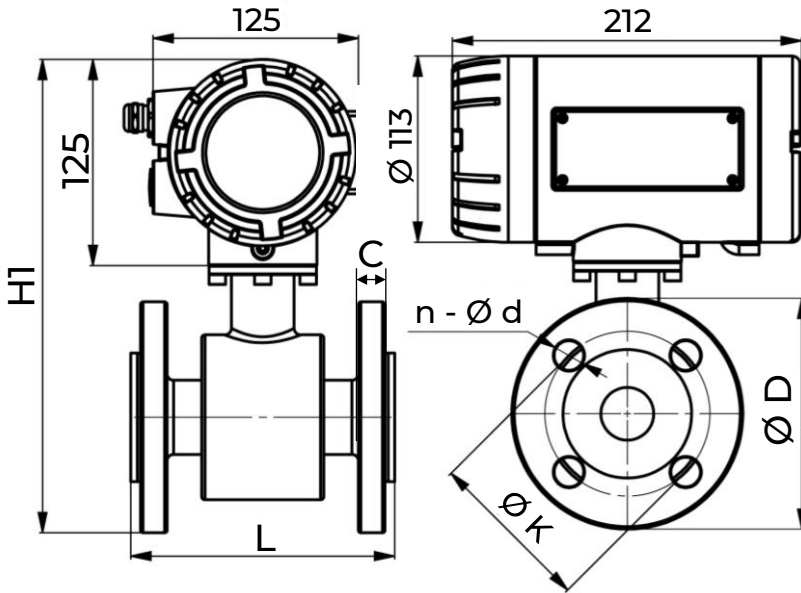


Size	L	H2	D	K	n - Ø d	C	Pressure Rating
3/8"	160	236	90	60.5	4 - Ø 16	11.5	Class 150
1/2"	160	236	90	60.5	4 - Ø 16	11.5	
3/4"	160	241	100	70	4 - Ø 16	13	
1"	160	246	110	79.5	4 - Ø 16	14.5	
1 1/4"	160	258	120	89	4 - Ø 16	16	
1 1/2"	200	268	130	98.5	4 - Ø 16	17.5	
2"	200	286	150	120.5	4 - Ø 18	19.5	
2 1/2"	200	316	180	139.5	4 - Ø 18	22.5	
3"	200	323	190	152.5	4 - Ø 18	24	
4"	250	353	230	190.5	8 - Ø 18	24	
5"	250	386	255	216	8 - Ø 22	24	
6"	300	416	280	241.5	8 - Ø 22	25.5	
8"	350	474	345	298.5	8 - Ø 22	29	
10"	400	533	405	362	12 - Ø 26	30.5	
12"	500	598	485	432	12 - Ø 26	32	
14"	500	653	535	476	12 - Ø 29.5	35	
16"	600	714	600	540	16 - Ø 29.5	37	
18"	600	755	635	578	16 - Ø 32.5	40	
20"	600	816	700	635	20 - Ø 32.5	43	
24"	600	924	815	749.5	20 - Ø 35.5	48	

ANSI Class 300 Dimensions

ANSI Class 300 Flange, ASME B16.5 with Integrated Transmitter

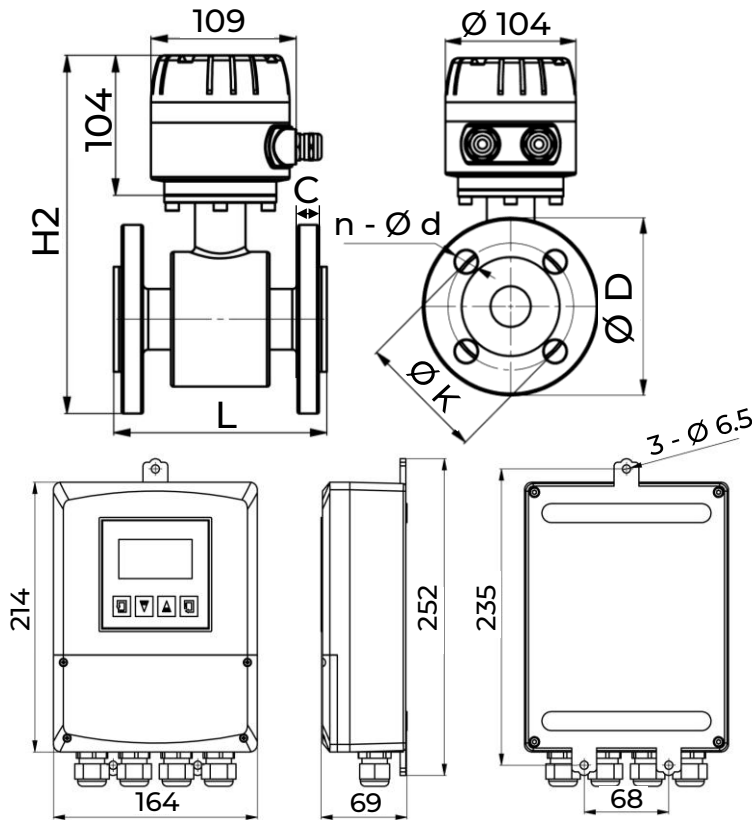
Dimensions (mm)



Size	L	H1	D	K	n - Ø d	C	Pressure Rating
3/8"	160	260	95	66.5	4 - Ø 16	14.5	Class 300
1/2"	160	260	95	66.5	4 - Ø 16	14.5	
3/4"	160	272	120	82.5	4 - Ø 18	16	
1"	160	275	125	89	4 - Ø 18	17.5	
1 1/4"	160	287	135	98.5	4 - Ø 18	19.5	
1 1/2"	200	302	155	114.5	4 - Ø 22	21	
2"	200	315	165	127	8 - Ø 18	22.5	
2 1/2"	200	337	190	149	8 - Ø 22	25.5	
3"	200	354	210	168.5	8 - Ø 22	29	
4"	250	387	255	200	8 - Ø 22	32	
5"	250	415	280	235	8 - Ø 22	35	
6"	300	452	320	270	12 - Ø 22	37	
8"	350	513	380	330	12 - Ø 26	41.5	
10"	400	574	445	387.5	16 - Ø 29.5	48	
12"	500	637	520	451	16 - Ø 32.5	51	
14"	500	699	585	514.5	20 - Ø 32.5	54	
16"	600	760	650	571.5	20 - Ø 35.5	57.5	
18"	600	814	710	628.5	24 - Ø 35.5	60.5	
20"	600	875	775	686	24 - Ø 35.5	63.5	
24"	600	995	915	813	20 - Ø 42	70	

ANSI Class 300 Flange, ASME B16.5 with Remote Transmitter

Dimensions (mm)



Size	L	H2	D	K	n - Ø d	C	Pressure Rating
3/8"	160	239	95	66.5	4 - Ø 16	14.5	Class 300
1/2"	160	239	95	66.5	4 - Ø 16	14.5	
3/4"	160	251	120	82.5	4 - Ø 18	16	
1"	160	254	125	89	4 - Ø 18	17.5	
1 1/4"	160	266	135	98.5	4 - Ø 18	19.5	
1 1/2"	200	281	155	114.5	4 - Ø 22	21	
2"	200	294	165	127	8 - Ø 18	22.5	
2 1/2"	200	321	190	149	8 - Ø 22	25.5	
3"	200	333	210	168.5	8 - Ø 22	29	
4"	250	366	255	200	8 - Ø 22	32	
5"	250	399	280	235	8 - Ø 22	35	
6"	300	436	320	270	12 - Ø 22	37	
8"	350	492	380	330	12 - Ø 26	41.5	
10"	400	553	445	387.5	16 - Ø 29.5	48	
12"	500	616	520	451	16 - Ø 32.5	51	
14"	500	678	585	514.5	20 - Ø 32.5	54	
16"	600	739	650	571.5	20 - Ø 35.5	57.5	
18"	600	793	710	628.5	24 - Ø 35.5	60.5	
20"	600	854	775	686	24 - Ø 35.5	63.5	
24"	600	974	915	813	20 - Ø 42	70	

ANSI Class 900 & 1500 Dimensions

ANSI Class 900 Flange, ASME B16.5 with Integrated Transmitter

ANSI Class 1500 Flange, ASME B16.5 with Integrated Transmitter

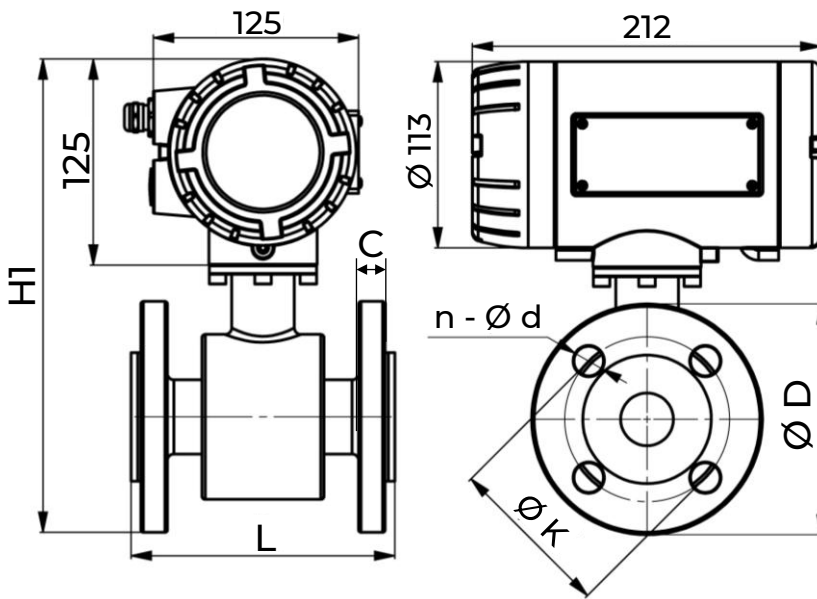
Dimensions (mm)							
Size	L	H	D	K	n - Ø d	C	Pressure Rating
1/2"	220	272	120	82.5	4 - Ø 22	22.5	Class 900
3/4"	220	277	130	89	4 - Ø 22	25.5	
1"	220	294	150	101.5	4 - Ø 26	29	
1 1/4"	220	305	160	111	4 - Ø 26	29	
1 1/2"	250	319	180	124	4 - Ø 29.5	32	
2"	250	349	215	165	8 - Ø 26	38.5	
2 1/2"	280	377	245	190.5	8 - Ø 29.5	41.5	
3"	280	379	240	190.5	8 - Ø 26	38.5	
4"	320	421.5	290	235	8 - Ø 32.5	44.5	

Dimensions (mm)							
Size	L	H	D	K	n - Ø d	C	Pressure Rating
1/2"	220	272	120	82.5	4 - Ø 22	22.5	Class 1500
3/4"	220	277	130	89	4 - Ø 22	25.5	
1"	220	294	150	101.5	4 - Ø 26	29	
1 1/4"	220	305	160	111	4 - Ø 26	29	
1 1/2"	250	319	180	124	4 - Ø 29.5	32	
2"	250	349	215	165	8 - Ø 26	38.5	
2 1/2"	280	377	245	190.5	8 - Ø 29.5	41.5	
3"	280	392	265	203	8 - Ø 32.5	48	
4"	320	432	310	241.5	8 - Ø 35.5	54	

EN 1092-1 Flange Dimensions

EN 1092-1 Flange with Integrated Transmitter

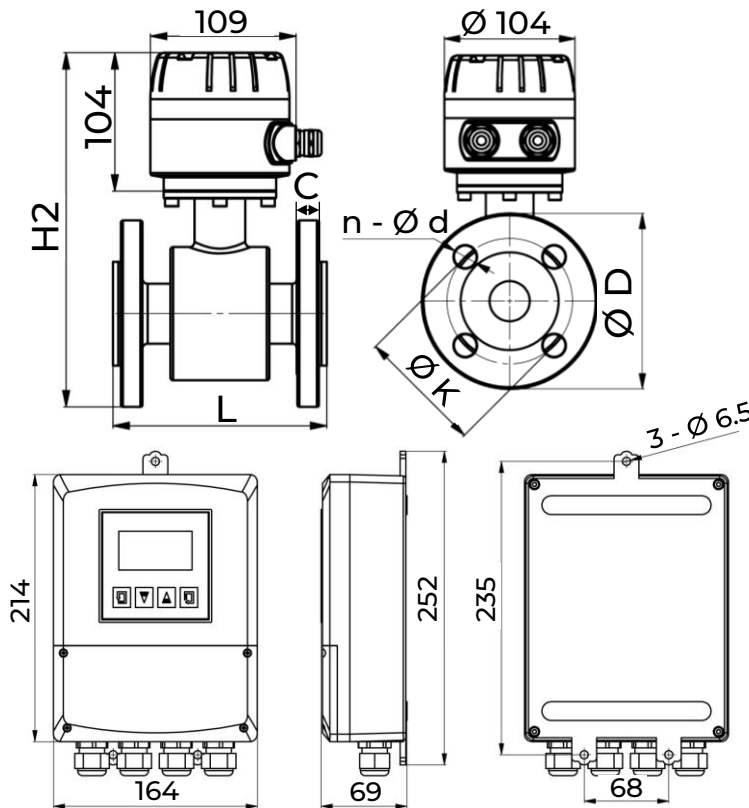
Dimensions (mm)



Size	L	H1	D	K	n - Ø d	C	Pressure Rating
10	160	257	90	60	4-Ø14	14	PN40 (580.15 PSI)
15	160	259	95	65	4-Ø14	14	
20	160	264	105	75	4-Ø14	16	
25	160	269	115	85	4-Ø14	16	
32	160	289	140	100	4-Ø18	18	
40	200	299	150	110	4-Ø18	18	
50	200	314	165	125	4-Ø18	20	
65	200	334	185	145	4-Ø18	20	PN16 (232.06 PSI)
80	200	349	200	160	8-Ø18	20	
100	250	369	220	180	8-Ø18	22	
125	250	399	250	210	8-Ø18	22	
150	300	434	285	240	8-Ø22	24	
200	350	492	340	295	12-Ø22	26	
250	400	549	395	350	12-Ø22	26	PN10 (145.04 PSI)
300	500	600	445	400	12-Ø22	26	
350	500	660	505	460	16-Ø22	28	
400	600	718	565	515	16-Ø26	32	
450	600	767	615	565	20-Ø26	36	
500	600	823	670	620	20-Ø26	38	
600	600	927	780	725	20-Ø30	42	

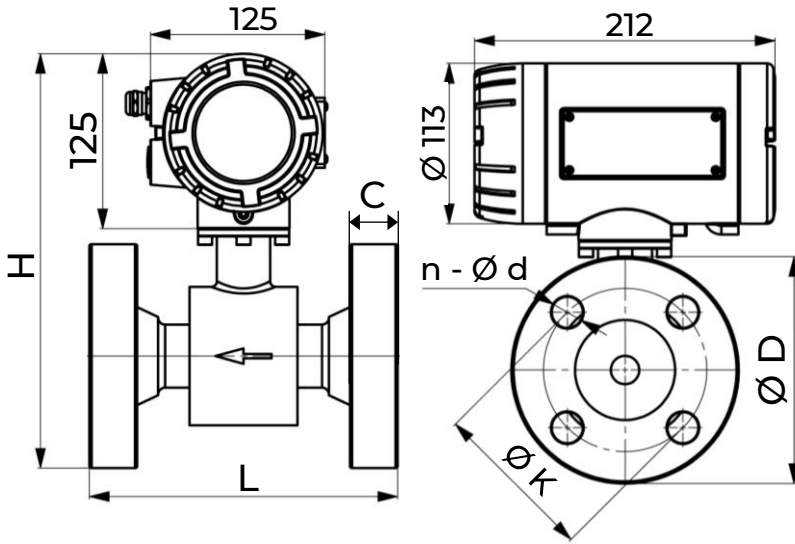
EN 1092-1 Flange Dimensions with Remote Transmitter

Dimensions (mm)

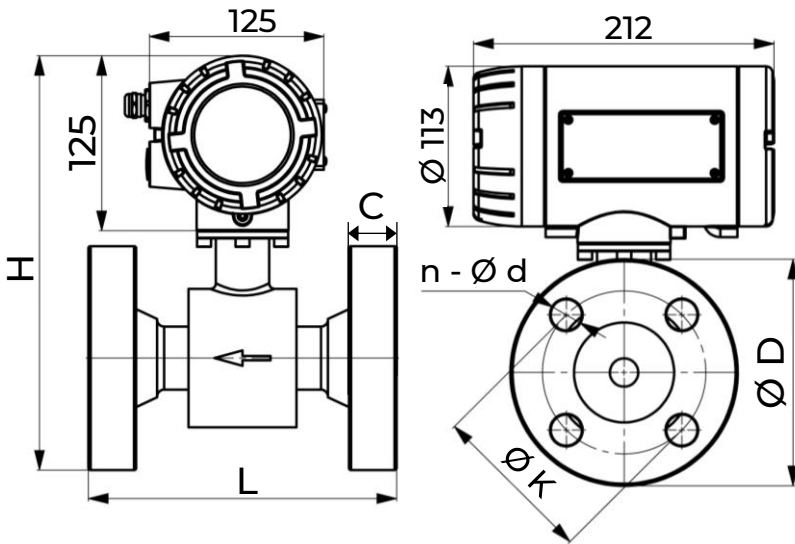


DN	L	H2	D	K	n - Ø d	C	Pressure Rating
10	160	236	90	60	4 - Ø 14	14	PN40 (PSI 580.15)
15	160	238	95	65	4 - Ø 14	14	
20	160	243	105	75	4 - Ø 14	16	
25	160	248	115	85	4 - Ø 14	16	
32	160	268	140	100	4 - Ø 18	18	
40	200	278	150	110	4 - Ø 18	18	
50	200	293	165	125	4 - Ø 18	20	
65	200	313	185	145	4 - Ø 18	20	PN16 (PSI 232.06)
80	200	328	200	160	8 - Ø 18	20	
100	250	348	220	180	8 - Ø 18	22	
125	250	378	250	210	8 - Ø 18	22	
150	300	413	285	240	8 - Ø 22	24	
200	350	471	340	295	12 - Ø 22	26	
250	400	528	395	350	12 - Ø 22	26	PN10 (PSI 145.04)
300	500	579	445	400	12 - Ø 22	26	
350	500	638	505	460	16 - Ø 22	28	
400	600	697	565	515	16 - Ø 26	32	
450	600	746	615	565	20 - Ø 26	36	
500	600	802	670	620	20 - Ø 26	38	
600	600	906	780	725	20 - Ø 30	42	

EN 1092-1 Flange Dimensions

EN 1092-1 Flange PN160 with Integrated Transmitter
Dimensions (mm)


Size	L	H	D	K	n - Ø d	C	Pressure Rating
15	220	264	105	75	4 - Ø 14	20	PN160 (2320.6 PSI)
20	220	277	130	90	4 - Ø 18	24	
25	220	289	140	100	4 - Ø 18	24	
32	220	302	155	110	4 - Ø 22	28	
40	250	314	170	125	4 - Ø 22	28	
50	250	339	195	145	4 - Ø 26	30	
65	280	364	220	170	8 - Ø 26	34	
80	280	374	230	180	8 - Ø 26	36	
100	320	409	265	210	8 - Ø 30	40	

EN 1092-1 Flange PN250 with Integrated Transmitter
Dimensions (mm)


Size	L	H	D	K	n - Ø d	C	Pressure Rating
15	220	277	130	90	4 - Ø 18	26	PN250 (3625.94 PSI)
20	220	280	135	95	4 - Ø 18	28	
25	220	294	150	105	4 - Ø 22	28	
32	220	307	165	120	4 - Ø 22	32	
40	250	322	185	135	4 - Ø 26	34	
50	250	342	200	150	8 - Ø 26	38	
65	280	369	230	180	8 - Ø 26	42	
80	280	387	255	200	8 - Ø 30	46	
100	320	427	300	235	8 - Ø 33	54	

Build Your Part Number

Series P86

Example: P86AS2P53SCR41DE1NCNNH5K

Series	
P86	
Output Signal - select one	
A	4 ... 20mA + pulse frequency 0...5KHz
B	4...20mA with HART + pulse frequency 0...5KHz
M	RS485 Modbus
Flow Relays - select one	
S1	Without
S2	With 2 galvanically isolated user adjustable relays (30VDC / 3A, 250VDC / 3A)
Protection Class - select one	
P5	IP65
P8	IP68 (for remote transmitter only)
Wetted Electrode Material - select one	
3S	316L Stainless Steel (standard)
3B	Hastelloy B
3C	Hastelloy C
3T	Titanium
3A	Tantalum
3X	Other materials available upon request
Wetted Liner Material - select one	
CR	CR (Chloroprene rubber)
PT	PTFE
PU	PUR (Polyurethane)
PF	PFA
XX	Other materials available upon request
Process Connection Material - select one	
41	Carbon Steel (standard)
42	304 Stainless Steel
43	316L Stainless Steel
Power Supply - select one	
D	24 VDC
A	85...265 VAC
Electrical Connection - select one	
E1	NPT ½" Threaded Hub
E2	M20 x 1.5 Cable gland
Transmitter Configuration - select one	
N	Integrated
R	Remote
Connectivity from Sensor to Remote Transmitter - select one (note: select only for remote transmitter configurations, otherwise leave blank)	
CN	Without
CY	32.81 ft Cable Length (10m)
CZ	Custom cable length (please inform length preference)
Ex-Proof - select one	
NH	Without
HA	Exd [ia Ga] qllc T5 Gb

Build Your Part Number

Series P86

Example: P86AS2P53SCR41DE1NCNNH5K

Process Connections & Transmitter – select one

ANSI Flange Class 150, ASME B16.5 with Integrated Transmitter – see page 3

5A	3/8"
5B	1/2"
5C	3/4"
5D	1"
5E	1 1/4"
5F	1 1/2"
5G	2"
5H	2 1/2"
5J	3"
5K	4"
5L	5"
5M	6"
5N	8"
5P	10"
5Q	12"
5R	14"
5S	16"
5T	18"
5U	20"
5V	24"

ANSI Flange Class 150, ASME B16.5 with Remote Transmitter – see page 3

5W	3/8"
5X	1/2"
5Y	3/4"
5Z	1"
6A	1 1/4"
6B	1 1/2"
6C	2"
6D	2 1/2"
6E	3"
6F	4"
6G	5"
6H	6"
6J	8"
6K	10"
6L	12"
6M	14"
6N	16"
6P	18"
6Q	20"
6R	24"

Build Your Part Number

Series P86

Example: P86AS2P53SCR41DE1NCNNH5K

Process Connections & Transmitter (continued...)

ANSI Flange Class 300, ASME B16.5 with Integrated Transmitter – see page 4

6S	3/8"
6T	1/2"
6U	3/4"
6V	1"
6W	1 1/4"
6X	1 1/2"
6Y	2"
6Z	2 1/2"
7A	3"
7B	4"
7C	5"
7D	6"
7E	8"
7F	10"
7G	12"
7H	14"
7J	16"
7K	18"
7L	20"
7M	24"

ANSI Flange Class 300, ASME B16.5 with Remote Transmitter – see page 4

7N	3/8"
7P	1/2"
7Q	3/4"
7R	1"
7S	1 1/4"
7T	1 1/2"
7U	2"
7V	2 1/2"
7W	3"
7X	4"
7Y	5"
7Z	6"
8A	8"
8B	10"
8C	12"
8D	14"
8E	16"
8F	18"
8G	20"
8H	24"

Build Your Part Number

Series P86

Example: P86AS2P53SCR41DE1NCNNH5K

Process Connections & Transmitter (continued...)

ANSI Flange Class 900, ASME B16.5 with Integrated Transmitter – see page 5

8J	1/2"
8K	3/4"
8L	1"
8M	1 1/4"
8N	1 1/2"
8P	2"
8Q	2 1/2"
8R	3"
8S	4"

ANSI Flange Class 1500, ASME B16.5 with Integrated Transmitter – see page 5

8T	1/2"
8U	3/4"
8V	1"
8W	1 1/4"
8X	1 1/2"
8Y	2"
8Z	2 1/2"
9A	3"
9B	4"

NPT Female Threaded with Integrated Transmitter

9C	1/2"
9D	3/4"
9E	1"
9F	1 1/4"
9G	1 1/2"
9H	2"

NPT Female Threaded with Remote Transmitter

9J	1/2"
9K	3/4"
9L	1"
9M	1 1/4"
9N	1 1/2"
9P	2"

NPT Male Threaded with Integrated Transmitter

9Q	1/2"
9R	3/4"
9S	1"
9T	1 1/4"
9U	1 1/2"
9V	2"

NPT Male Threaded with Remote Transmitter

9W	1/2"
9X	3/4"
9Y	1"
9Z	1 1/4"
1A	1 1/2"
1B	2"

Build Your Part Number

Series P86

Example: P86AS2P53SCR41DE1NCNNH5K

Process Connections & Transmitter (continued...)

BSPP Female Threaded with Integrated Transmitter

1C	DN10
1D	DN15
1E	DN20
1F	DN25
1G	DN32
4J	DN40
4K	DN50

BSPP Female Threaded with Remote Transmitter

4L	DN10
4M	DN15
4N	DN20
4P	DN25
4Q	DN32
4R	DN40
4S	DN50

BSPP Male Threaded with Integrated Transmitter

4T	DN10
4U	DN15
4V	DN20
4W	DN25
4X	DN32
4Y	DN40
4Z	DN50

BSPP Male Threaded with Remote Transmitter

F1	DN10
F2	DN15
F3	DN20
F4	DN25
F5	DN32
F6	DN40
F7	DN50

Build Your Part Number

Series P86

Example: P86AS2P53SCR41DE1NCNNH5K

Process Connections & Transmitter (continued...)

EN1092-1 Flange with Integrated Transmitter – see page 6

1H	DN10	(PN40)
1J	DN15	(PN40)
1K	DN20	(PN40)
1L	DN25	(PN40)
1M	DN32	(PN40)
1N	DN40	(PN40)
1P	DN50	(PN40)
1Q	DN65	(PN16)
1R	DN80	(PN16)
1S	1DN00	(PN16)
1T	DN125	(PN16)
1U	DN150	(PN16)
1V	DN200	(PN16)
1W	DN250	(PN10)
1X	DN300	(PN10)
1Y	DN350	(PN10)
1Z	DN400	(PN10)
2A	DN450	(PN10)
2B	DN500	(PN10)
2C	DN600	(PN10)

EN1092-1 Flange with Remote Transmitter – see page 6

2D	DN10	(PN40)
2E	DN15	(PN40)
2F	DN20	(PN40)
2G	DN25	(PN40)
2H	DN32	(PN40)
2J	DN40	(PN40)
2K	DN50	(PN40)
2L	DN65	(PN16)
2M	DN80	(PN16)
2N	DN100	(PN16)
2P	DN125	(PN16)
2Q	DN150	(PN16)
2R	DN200	(PN16)
2S	DN250	(PN10)
2T	DN300	(PN10)
2U	DN350	(PN10)
2V	DN400	(PN10)
2W	DN450	(PN10)
2X	DN500	(PN10)
2Y	DN600	(PN10)

Build Your Part Number

Series P86

Example: P86AS2P53SCR41DE1NCNNH5K

Process Connections & Transmitter (continued...)

EN1092-1 Flange with Integrated Transmitter, PN160 – see page 7

2Z	DN15	T
3A	DN20	
3B	DN25	
3C	DN32	
3D	DN40	
3E	DN50	
3F	DN65	
3G	DN80	
3H	DN100	

EN1092-1 Flange with Integrated Transmitter, PN250 – see page 7

3J	DN15	T
3K	DN20	
3L	DN25	
3M	DN32	
3N	DN40	
3P	DN50	
3Q	DN65	
3R	DN80	
3S	DN100	

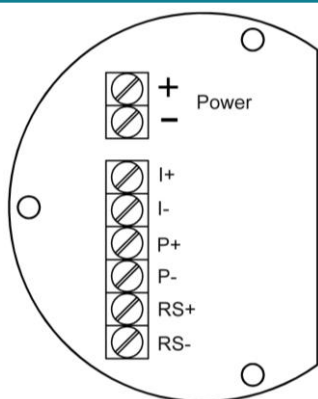
Wafer Design with Integrated Transmitter, PN16 – see page 8

3T	DN10	T
3U	DN15	
3V	DN20	
3W	DN25	
3X	DN32	
3Y	DN40	
3Z	DN50	
4A	DN65	
4B	DN80	
4C	DN100	
4D	DN125	
4E	DN150	
4F	DN200	
4G	DN250	
4H	DN300	

Wiring Schemes

For Integrated Transmitter Configurations without Relays

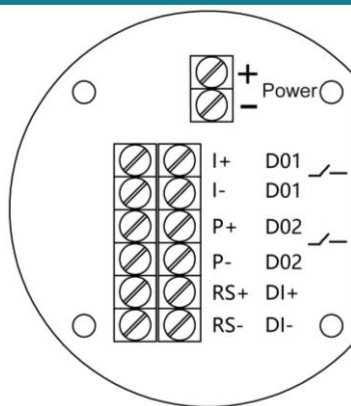
(Note: depending on ordering configuration, certain terminals may be absent or not utilized)



+	Power +
-	Power -
I+	4...20mA output +
I-	4...20mA output -
P+	Pulse Output +
P-	Pulse Output -
RS+	RS485 +
RS-	RS485 -

For Integrated Transmitter Configurations with Relays

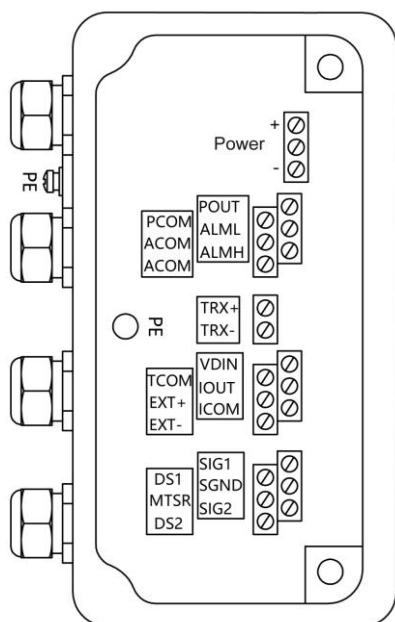
(Note: depending on ordering configuration, certain terminals may be absent or not utilized)



+	Power +
-	Power -
I+	4...20mA output +
I-	4...20mA output -
P+	Pulse Output +
P-	Pulse Output -
RS+	RS485 +
RS-	RS485 -
D01	Switch 1 Output
D01	Switch 1 Output
D02	Switch 2 Output
D02	Switch 2 Output
DI+	Not in use
DI-	Not in use

For All Remote Transmitter Configurations

(Note: depending on ordering configuration, certain terminals may be absent or not utilized)



+	Power +	Power Supply
-	Power -	
POUT	Pulse Output +	Pulse Output
PCOM	Pulse Output -	
ALML	Lower Limit Alarm +	Lower Limit Alarm
ACOM	Lower Limit Alarm -	
ALMH	Upper Limit Alarm +	Upper Limit Alarm
ACOM	Upper Limit Alarm -	
TRX+	RS485 +	Communication
TRX-	RS485 -	
VDIN	2 wire power supply +	
TCOM	Pulse Output Grounding	
IOUT	4...20mA output +	Analog Output
ICOM	4...20mA output -	
EXT+	Excitation Current +	Excitation Current
EXT-	Excitation Current -	
SIG1	Signal 1	Signal
SGND	Signal Grounding	
SIG2	Signal 2	Excitation Shield
DS1	Excitation Shield 1	
MTSR	Excitation Shield Grounding	
DS2	Excitation Shield 2	

Technical Parameters

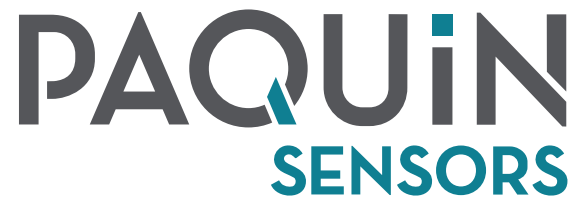
Technical Parameters

Measuring	Measuring Range	0.33...33ft/s (0.1...10m/s) See flow range table page 2 for complete details
	Applicable Medium	All liquids with conductivity > 5µs/cm
	Accuracy	0.5%
	Repeatability	±0.15% of Reading
Electrical	Output Signal	4...20mA + Pulse Frequency 0...5KHz 4...20mA with HART + Pulse Frequency 0...5KHz RS485 Modbus 2 galvanically isolated user adjustable switching relays 30VDC / 3A, 250VDC / 3A
	Operating Voltage	85...265 VAC ± 10% 24 VDC ± 10%
	Power Consumption	Less than 20W
	Electrical Connection	M20 x 1.5 cable gland ½" NPT threaded hub 10 meter cable from sensor to transmitter
Environmental	Ambient Temperature	Transmitter Housing: -22...140°F (-30...60°C)
	Ambient Humidity	≤ 85% Relative Humidity (68°F / 20°C)
	Medium Temperature	-4...194...266...356°F (-20...90...130...180°C) (Refer to Liner Material)
	Protection Class	Integrated Transmitter: IP65 Remote Transmitter: IP68
	Optional Ex proof	Exd [ia Ga] qllc T5 Gb
Materials	Electrode	316 Stainless Steel Hastelloy B Hastelloy C Titanium
	Liner	CR (Neoprene) PTFE PUR (Polyurethane) PFA
	Body/Flange	Carbon Steel 304 Stainless Steel 316L Stainless Steel
	Visual Display	Yes
	Process Connection	Flange Wafer NPT Female NPT male BSPP female BSPP male

Features

Auto "ZERO" Calibration	See manual for details
Self-Monitoring and Diagnostic	Monitor Citation Circuit, Electrode, and Transmitter Malfunction
Empty and Full Pipe Detection	Detect empty or full pipeline
Change Flow Direction in Real Time	See Manual for Details
Bi-Directional Measurement	Measuring both forward and reverse flow
Selectable Flow Rate Unit of Measurement	Gal/h, Gal/min, m³/h, m³/min, L/h, L/m and more
Low Flow Cut Off	Adjustable in 0...10%, no pulse output for any signal less than settings
Outputs Selectable	4...20mA, 0-5KHz, pulse
Display	Instantaneous flow rate in percentage, instantaneous flow rate, and total flow rate
Totalizer Reset	See manual for details

Additional Information



Paquin Sensors' product portfolio is designed to provide options to fit the most diverse range of specifications.

We collaborate with our customers to match the best product technologies with your unique application requirements.

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