



APLISENS - PEM-1000 SERIES FLOW METER

Electromagnetic (Magflow)

PEMDN0050PN16.1

- 0,085..28,274,3 m³/h
- 3/8" up to 40" pipe size
- 1,6 MPa
- Acids, alkalis, paints, pastes, water etc
- 4-20mA or Pulse/frequency



PRODUCT DESCRIPTION

The Aplisens PEM-1000 'Mag flow meter' is a very robust flowmeter for a wide range of applications at a competitive price.

The magnetic flowmeter is for bidirectional measurement of liquids with a minimum conductivity 5 μ S/cm such as acid/alkalis, paints, pastes and water/wastewater.

The PEM-1000 is available in two versions, one with a direct mounted display/sensor and the other with a separate display/sensor. The pipe size starts at 3/8" (DN10) which gives 1m³/h all the way up to 40" (DN1000) which offers 8000m³/h with a total of twenty one different pipe size/m³/h options inbetween. There is a choice of lining from soft or hard rubber to teflon and a choice of electrode materials which are 316Ti, Platinum Hastelloy, Tantalum and Titanium. Application examples:

- Utility, water and wastewater processing

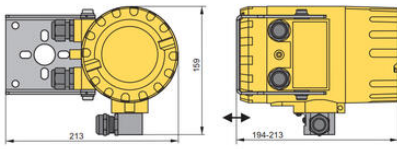
Please refer to the datasheet further down the page under Downloads.

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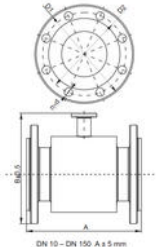
SPECIFICATIONS

Approvals	CE
IP Class	IP67
Operating Voltage AC Max	260
Operating Voltage AC Min	90
Temperature ambient from	-20
Temperature ambient to	60
Temperature range of media from	-25
Temperature range of media to	130
Trykmodstand max	16

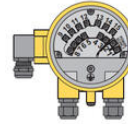
Dimensions of control unit



DN	PN	A	B	ET	DT	D2	E	a	kg
15	150	153	80	50	44	4	2.5	15	1.5
20	150	153	80	50	44	4	2.5	15	1.5
25	200	162	105	75	54	4	3	20	2.5
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600	300	224	140	100	70	8	5.5	30	4
800	400	276	160	110	80	12	8	40	6
1000	500	338	180	130	90	16	10	50	8



DN 10 - DN 150 A ± 5 mm
DN 200 - DN 1000 A ± 10 mm



Terminal	Description
1	90...260V AC (U _i) 50...50V DC (U _o)
2	reverse polarity protection, galvanic insulation, passive
3	reverse polarity protection, galvanic insulation, passive
4	reverse polarity protection, galvanic insulation, passive
5	reverse polarity protection, galvanic insulation, passive
6	reverse polarity protection, galvanic insulation, passive
7	(+) active (passive on request)
8	(-) active (passive on request)
9	RS 485 A
10	RS 485 B
11	GN/PE
12	GN/PE
13	reverse polarity protection, galvanic insulation
14	reverse polarity protection, galvanic insulation
15	reverse polarity protection, galvanic insulation, passive

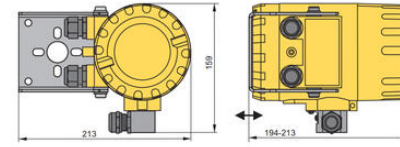
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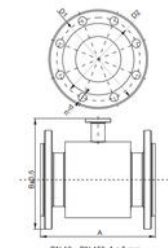
DN	v=0.3m/s	v=1m/s	v=3m/s	v=6m/s	v=10m/s
10	0.088	0.383	0.848	1.414	2.282
15	0.131	0.546	1.209	2.025	3.167
20	0.174	0.709	1.570	2.568	4.052
25	0.217	0.872	1.931	3.110	4.937
32	0.260	1.035	2.292	3.652	5.822
40	0.303	1.198	2.653	4.194	6.707
50	0.346	1.361	3.014	4.736	7.592
60	0.389	1.524	3.375	5.278	8.477
80	0.491	1.962	4.458	6.841	11.311
100	0.593	2.400	5.541	8.404	14.145
125	0.741	3.000	6.926	10.279	17.079
150	0.889	3.600	8.311	12.154	19.913
200	1.132	4.800	11.081	15.740	25.457
250	1.375	6.000	13.852	19.326	31.001
300	1.618	7.200	16.623	22.912	36.545
350	1.861	8.400	19.394	26.498	42.089
400	2.104	9.600	22.165	30.084	47.633
450	2.347	10.800	24.936	33.670	53.177
500	2.590	12.000	27.707	37.256	58.721
600	3.071	14.400	33.249	44.113	69.806
800	3.952	19.200	42.998	55.341	87.484
1000	4.833	24.000	52.747	66.569	105.162

DN	Standard flow rate (m³/h)	Flow rate range (m³/h)
10	0.2	0.1 - 0.7
15	0.3	0.1 - 1.0
20	0.4	0.1 - 1.4
25	0.5	0.1 - 1.8
32	0.6	0.1 - 2.3
40	0.8	0.1 - 3.0
50	1.0	0.1 - 3.8
60	1.2	0.1 - 4.7
80	1.6	0.1 - 6.3
100	2.0	0.1 - 8.0
125	2.5	0.1 - 10.0
150	3.0	0.1 - 12.0
200	4.0	0.1 - 16.0
250	5.0	0.1 - 20.0
300	6.0	0.1 - 24.0
350	7.0	0.1 - 28.0
400	8.0	0.1 - 32.0
450	9.0	0.1 - 36.0
500	10.0	0.1 - 40.0
600	12.0	0.1 - 48.0
800	16.0	0.1 - 64.0
1000	20.0	0.1 - 80.0

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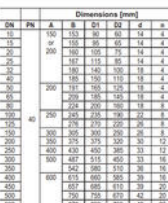


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