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 5µS/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 elctrode materials which are 316Ti, Platinium Hastelloy, Tantalum and Titanium. Application examples:

• Utility, water and wastewater processing

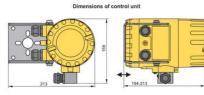
Please refer to the datasheet further down the page under Downloads.

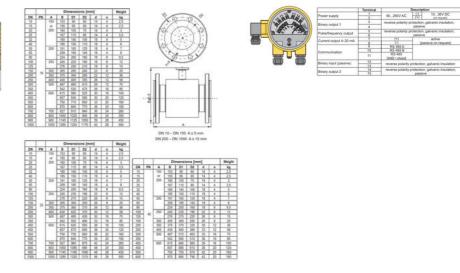
TECHNICAL DATA

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Classification accuracy	± 0.5% of scale value according to EN837-1			
Connection	DN50 PN16			
IP class	IP67			
Material of body	Carbon steel			
Material of wetted parts	PTFE			
Pressure resistance max	16 bar			
Signal type	4-20 mA			
Supply voltage ac max	260 V AC			
Supply voltage ac min	90 V AC			

Temperature ambient from	-20 °C
Temperature ambient to	60 °C
Temperature of media from	-25 °C
Temperature of media to	130 °C
Weight	3,5 kg





Flow value table in [m ¹ fh]							and re	Standard Omax and recommended Omax range		
DN	v=0,3m/a	x+1m/s	v=3m/s	v=Sm/a	v+8m/s	v=10m/s	DN	Standard flow rate [m3/h]	Flow rate range (m3/h)	
10	0.085	0.283	0.848	1,414	2,262	2.827	- 10	1	1-1,7	
15	0.191	0.636	1,909	2.545	3 181	3,817	15	2	2-38	
20	0.339	1,131	3,393	5.635	9.048	11.310	20	4	3.5-6.8	
25	0.530	1,767	5.301	8.836	14,137	17,671	25	5	5-10.6	
32	0.669	2,895	8,655	14,476	23,162	28,953	32	-10	9-37.4	
40	1,357	4.524	13.572	22,619	36,101	45,239	40	35	14-27.1	
50	2,121	7,069	21,206	35.343	56.549	70.685	50	20	20-42.4	
65	3.584	11.945	35.838	59,729	95.567	119.46	65	30	30 - 72	
80	5.429	18.096	54,287	90,478	144.76	180.96	80	50	50 - 109	
100	8.482	28.274	84,823	141.37	226.19	282.74	100	100	85-170	
125	13,254	44,179	132,54	220,89	353,43	441,787	125	150	130 - 265	
150	19,085	63.617	190,85	318,087	508.94	630.17	150	200	190 - 380	
200	33,909	113,10	339.30	565.49	904.78	1130.0	200	340	340-660	
250	53.014	176.71	530.14	883.57	1413.7	1767.1	250	500	500 - 1060	
300	76.341	254.47	763.41	1272.3	2035.7	2544.7	300	780	760 - 1530	
350	103.90	346.36	1039.1	1731.8	2770.9	3463.6	350	1000	1000 - 2080	
400	135.72	452.39	1357.2	2261.9	3619.1	4523.9	400	1300	1300 - 2700	
500	212.06	706.86	2120.6	3534.3	5654.9	7068.6	500	2000		
600	305.36	1017.9	3053.6	5089.4	8143.0	10178.7	000	3000	consult	
800	542.87	1809.6	5428.7	9047.8	14476.4	18095.5	800	5000	manufacturer	
1000	848.23	2827.4	8482.3	14137.1	22619.4	28274.3	1000	8000		