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 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

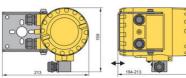
Please refer to the datasheet further down the page under Downloads.

Specifications

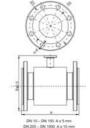
IP Class	IP67
Operating Voltage AC Max	260
Operating Voltage AC Min	90
Temperature ambient from	-20
Temperature ambient to	60
Temperature range of media from	-25
Temperature range of media to	130
Trykmodstand max	16
Weight	3,5



Dimensions of control unit



				Weight				
ON.	PN	A		DI	02	6		Ag.
10		150	753	90	60	54	4	25
15	1	01	255	96	65	14	-4	25
	1	200	560	105	75	54	- 4	3
8	1		567	155	#5	14	- 4	3.5
2	1	- 01	180	140	.100	18	-4	5
0	1		185	150	110	18	4	6
0	1.1	200	- 591	165	125	18	4	7
δ.		1.1	209	185	145	18	-4	8
ŵ.	1		224	200	160	58	8	9,5
00	1	250	245	220	160	18	8	12
15	1.	1000	276	250	210	58	8	15
50		300	-305	295	240	22	.8.	20
10	1.74	350	375	340	296	22	12	38
¢.	1	400	430	405	355	26	T2	58
Ġ.	1	500	487	460	433	26	72	20
0	1		542	520	435	26	14	85
10		600	615	580	525	30	- 96	100
50	1		657	640	585	30	-20	122
36		1.1	750	715	650	33	20	160
00	1.	and the	870	640	778	- 36	- 20	190
50	1	700	827	\$93	543	36	24	263
30	1	800	1050	1025	953	32	24	355
	1	- 900	-1145	1125	9252	29	28	455
90.		1000	1285	1255	1170	42	- 28	555





(· · · · · · · · · · · · · · · · · · ·	Terminal	Description					
Power supply	1	90260V AC	(*) 10.38V DC (*) (m request)				
Binary output 1	3	reverse polarity protection, galvanic insulation passive					
Denie y Composi i	4						
Pulse/frequency output	6	reverse polarity pro	reverse polarity protection, galvanic insulation passive				
Current output 4-20 mA	7	(+)	(passive on request)				
Communication	8 10 11	RS 485 A RS 485 B RS 485 GND / shield	-				
Binary input (passive)	12	neverse polarity protection, galvanic in					
Binary output 2	14	reverse polarity pr	otection, galvanic insulation passive				

		Weight		Dimensions [mm]						
		kg		8	02	D1	8	A	PN	DN
		2.5	-6	54	60	90	353	.150		50
	_	2.6	-4	54.	-65	- 95	155	or		15
		3	4	54	75	105	- 580 -	200		
N PN	CN	3.5	4	54.	45	115	567			3
	10	5	- 6	58	100	140	580	1.2		32
	15	6	- 4	58	110	150	185	-		40
	20	T	4	58	125	165	191	200		50
	.25	8	- 4	58	145	185	209	1000		65
2	22	9.5	8	18	160	200	224			80
Ξ.	42	12	8	22	190	235	245	250		100
	50	15	-8	26	220	270	276	0.0		125
	65	20	8	26	250	300	305	300	25	150
	80	36	12	20	310	360	3/5	350		200
2 40	100	58	72	30	5.70	425	430	400	1.1	
51 **	125	10	76	30	430	485	487	500		300
0	150	85	16	33	490	555	542			355
0	200	100	16	36	550	620	615	600		900
0	250	120	20	36	600	\$70	657	1.11		450
0	300	102	20	36	660	730	750	- 23		500
0	350	100	20	30	770	845	870		- 33	600
0	400	260	24	42	875	960	327	700		700
0	450	350	24	48	990	1085	1050	.800		800
0	500	450	28	-48	1090	1185	1145	900	1.5	900
0	600	550	28	56	1210	1322	1285	1000	- 21	1000

		Di	mensk	ins (m	m)		Weight
PN	A	8	01	00	d		kg
	150	153	-940	60	14	4	2,5
	or.	155	36	65	14	4	2.5
	200	160	105	75	14	4	3
		167	115	10	- 14	4	2.5
		180	142	100	18	4	5
		185	150	110	18	4	0
	200	781	165	125	18	-4	F.
		279	185	145	18.	4	
	-	224	200	160	18.	8	9.5
	250	245	235	790	22		12
40 25		276	279	220	28	8	15
	300	305	300	250	28	8	20
	350	375	375	320	30	12	- 36
	400	430	450	385	33	12	58
	500	487	515	450	33	16	70
		542	580	510	. 30	16	85
	600	615	660	585	39	10	100
		657	685	410	30	20	120
		750	758	670	42	20	140
		870	890	790.	42	20	190

		and re-	commanded C						
DN	v=0,3m/a	x*1m/s	v#3m/s	vesmia	v=8ms/s	v=10m/s	DN	Standard flow rate [m3/b]	- Fil
10	0.085	0.283	0,848	1,414	2,262	2,827	10	1	1.0
15	0,191	0.636	1,909	2,545	3,181	3.817	- 15	2	1.00
20	0.339	1,131	3,393	5,655	9,048	11,310	20	4	- 3
25	0,530	1,767	5,301	8,836	14,137	37,671	26	5	100
32	0,869	2,895	8,686	14,476	23,162	28.953	- 32	10	1.1
40	1,357	4,524	13,572	22,619	36,191	45,239	40	-15	
50	2,121	7,069	21,206	35.343	56.549	70.655	50	20	2
65	3.584	11.945	35.838	59,729	95.567	119.46	65	30	
80	5.429	18.096	54,287	90,478	144.76	180.96	80	50	5
100	8.482	28.274	84,823	141.37	226.19	282.74	100	100	
125	13,254	44,179	132,54	220,89	353,43	441,787	125	150	1.1
150	19,085	63.617	190.85	318,087	508.94	630.17	150	200	
200	33,929	113,10	339.30	565.49	904,78	1130,0	200	260	1.2
250	53,014	176,71	530,14	883,57	3413,7	1767,1	250	500	50
300	76,341	254,47	763,41	1272,3	2035,7	2544.7	300	780	70
350	103.90	346.36	1039.1	1731.8	2770.9	3463.6	350	1000	10
400	135.72	452,39	1357.2	2261.9	3619,1	4523.9	400	1300	1.3
500	212.08	706.86	2120.6	3534.3	5654.9	7068.6	- 500	2000	
600	305,36	1017,9	3053.6	5069.4	8143,0	10178.7	000		1
800	542,87	1809.6	5428,7	9047.8	14476.4	18095.5	800	5000	ma
1000	848.23	2827.4	8482.3	14137.1	22619.4	28274.3	1000	8000	