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:

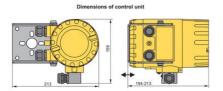
• Utility, water and wastewater processing

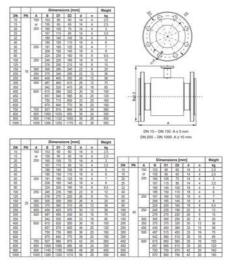
Please refer to the datasheet further down the page under Downloads.

Specifications

Approvals	CE		
Classification accuracy	± 0.5% of scale value according to EN837-1		
Connection Thread	DN50 PN16		
IP Class	IP67		
Material of body	Carbon steel		
Materials Wetted Parts	PTFE		
Mounting	Flange		
Operating Voltage AC Max	260		

Operating Voltage AC Min	90
Signal type	4-20 mA
Temperature ambient from	-20
Temperature ambient to	60
Temperature range of media from	-25
Temperature range of media to	130
Trykmodstand max	16

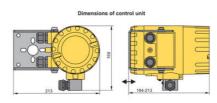


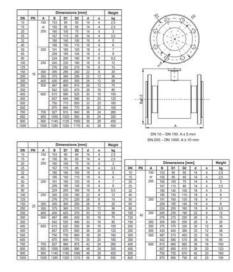


Power supply	1 2	90260VAC	(*) 1038V DC (*) (m.mgumi)	
Binary output 1	3	reverse polarity protection, galvanic insulation, passive		
Briary output 1	4			
Pulse/frequency output	5	reverse polarity p	rotection, galvanic insulation,	
r asia regions) dopo	6	passive		
Current output 4-20 m	4 7	(+)	active	
2 //	8	(0)	(passive on request)	
	· ·	RS 485 A		
Communication	10	RS 485 B RS 485	-	
	11	GND / shield		
Binary input (passive)	12	reverse polarity protection, galvanic insula		
and the desired	13			
Birnery output 2	14	reverse polarity protection, galvanic insulation passive		
binary output 2	15			

	Flow value table in [m ¹ /h]					
DN	v=0,3m/s	v=1m/s	v×3m/s	v=5m/s	v=0m/s	v=10m/s
10	0.085	0.283	0.848	1,414	2,262	2,827
15	0,191	0,636	1,909	2,545	3,181	3,817
20	0.339	1,131	3,393	5.655	9.048	11.310
25	0.530	1.767	5.301	8.836	14,137	17,671
32	0.869	2.895	8.686	14,476	23.162	28,953
40	1.357	4.524	13.572	22,619	36,101	45,239
50	2.121	7,069	21,206	35.343	56,549	70.656
65	3.584	11.946	35.838	59,729	95,567	-119.46
80	5.429	18.096	54,297	90,478	144.76	180.96
100	8.482	26.274	84.823	141.37	226.19	282.74
125	13,254	44,179	132,54	220,89	353,43	441,787
150	19,085	63.617	190,85	318,087	508,94	636,17
200	33,929	113,10	339,30	565,49	904.78	1130,0
250	53,014	176,71	530,14	883,57	1413,7	1767,1
300	76,341	254,47	763,41	1272.3	2035,7	2544,7
350	103,90	346,36	1039,1	1731,8	2770,9	3463,6
400	135,72	452,39	1357,2	2261.9	3619,1	4523.9
500	212,06	706,86	2120.6	3534.3	5654.9	7068,6
600	305,36	1017,9	3053,6	5069,4	8143,0	10178,7
800	542,87	1809,6	5428,7	9047.8	14476,4	18095.5
1000	848.23	2627.4	8482.3	14137.1	22619.4	28274.3

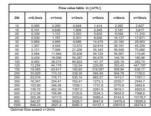








	Terminal	d Description	
Power supply	1	90.260VAC	(*) 1038V DC
EVEN STORY	3	construe probable per	otection, galvanic insulation,
Binary output 1	4	resource posarsy pr	passive
Pulse/frequency output	5	reverse polarity protection, galvanic insulation passive	
- menuntumicy output	6		
Current output 4+20 mA	7	(+)	active.
	. 8.	(0)	(passive on request)
Communication	9	RS 485 A	
	10	RS 485 B	1
	11	RS 485 GND / shield	
Binary input (passive)	12	neverse polarity protection, galvanic insulation	
Binary output 2	14	reverse polarity protection, galvanic insulation,	



Standard Omex and recommended Omex range				
DN	Standard flow rate [m3/h]	Flow rate range (m3/h)		
10.	1	1-1.7		
15	- 2	2 - 3.8		
20	- 6	3,5 - 6,8		
250	- 5	5-10.8		
32	10	9-17.4		
40	- 15	14 - 27.1		
50	20	20 - 42.4		
65	30	30 - 72		
80	50	50 - 109		
100	100-	85 - 170		
125	150	130 - 265		
	200	190 - 380		
200		340 - 660		
250	500	500 - 1060		
300	760	760 - 1530		
250	1000	1000 - 2080		
400	1300	1300 - 2700		
500	2000			
600	3000	consult		
500	5000	manufacturer		
1000	8000			