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

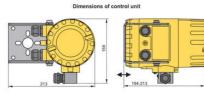
Please refer to the datasheet further down the page under Downloads.

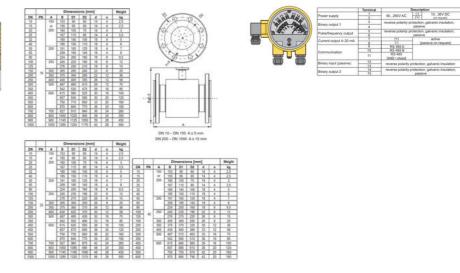
TECHNICAL DATA

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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 | | |