



# UK Flowtechnik

Specialists in flow metering, pumps, couplings  
and process measurement equipment

## PRODUCT DATASHEET



UK Flowtechnik Ltd  
1 Central Park  
Lenton Lane  
Nottingham  
NG7 2NR  
United Kingdom

Phone +44 (0) 11 59 01 71 11  
UK Free Phone 0800 4334 770  
Fax +44 (0) 11 59 86 88 75

[sales@ukflowtechnik.com](mailto:sales@ukflowtechnik.com)  
[www.ukflowtechnik.com](http://www.ukflowtechnik.com)

## M & N Series Flow Alarm Flowmeters



The M & N Series offer the same versatility as the B Series meter with the addition of one or two flow alarms in the form micro-switches. This makes them ideal to provide a low flow cut-off to protect a hydraulic or cooling water pumps and bearing lubrication/cooling water circuits to prevent damage. With pressure ratings up to 414 Bar even jacking circuits for hydrodynamic bearings can be monitored. The air/gas scales also mean they can be used to detect compressor and Nitrogen blanket failures.

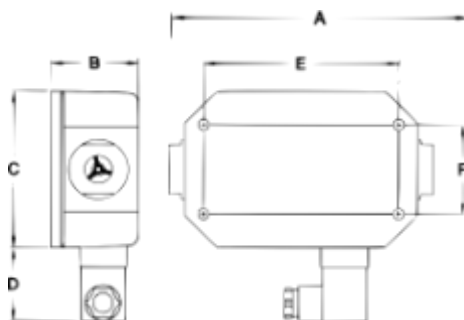
### Features & Benefits

- Linearity 2% of full scale
- Up to 414 Bar pressure rating
- Scales for water and air
- Viscosity compensated up to 110 cSt
- Horizontal or vertical mounting
- 1 or 2x micro-switch contacts

### Technical Data

Body Material	Anodised Aluminium, Brass or 304 Stainless Steel
Orifice, Cone & Spring Material	Stainless Steel
Seals	Buna-N (EPDM, Viton or FFKM optional)
Enclosure Material	Epoxy coated Aluminium
Window Material	Pyrex (Buna-N seal)
Linearity	Water ( $\pm 2.5\%$ FSD centre $\frac{1}{2}$ & $\pm 4\%$ FSD top & bottom $\frac{1}{2}$ on air)
Maximum Viscosity	110 cSt
Max Pressure (Bar) For Air & Gases	41 Bar (Aluminium & Brass), 69 Bar (Stainless Steel)
Max Pressure (Bar) For Liquids	241 Bar (Aluminium & Brass), 414 Bar (Stainless Steel)
Max Temperature (°C)	85°C

## Dimensional Data



	Series 3	Series 4	Series 5	Series 5 (with 2" ports)
<b>A</b>	<b>167</b>	<b>182</b>	<b>258</b>	<b>322</b>
<b>B</b>	<b>56</b>	<b>75</b>	<b>97</b>	
<b>C+D</b>	<b>148</b>	<b>161</b>	<b>182</b>	

## Ordering Information

<b>M</b>	<b>4</b>	<b>A</b>	<b>-</b>	<b>6</b>	<b>H</b>	<b>U</b>	<b>-</b>	<b>40</b>	<b>-</b>	
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**Style**

Flow Alarm (1 Switch) **M**

Flow Alarm (2 switches) **N**

**Thread Type/  
Porting female**

1/4" NPT	<b>S</b>	3 Only
3/8" NPT	<b>A</b>	3 Only
1/2" NPT	<b>B</b>	3 Only
3/4" NPT	<b>C</b>	4 Only
1" NPT	<b>D</b>	4 Only
#6 SAE	<b>E</b>	3 Only
#8 SAE	<b>F</b>	3 Only
#10 SAE	<b>G</b>	4 Only
#12 SAE	<b>H</b>	4 Only
#16 SAE	<b>J</b>	4 Only
1.1/4" NPT	<b>K</b>	5 Only
1.1/2" NPT	<b>L</b>	5 Only
2" NPT	<b>M</b>	5 Only
#20 SAE	<b>N</b>	5 Only
#24 SAE	<b>P</b>	5 Only
#32 SAE	<b>Q</b>	5 Only
1/4" BSPP	<b>&amp;</b>	3 Only
3/8" BSPP	<b>R</b>	3 Only
1/2" BSPP	<b>T</b>	3 Only
3/4" BSPP	<b>U</b>	4 Only
1" BSPP	<b>V</b>	4 Only
1.1/4" BSPP	<b>W</b>	5 Only
1.1/2" BSPP	<b>Y</b>	5 Only
2" BSPP	<b>X</b>	5 Only

**Style**

Standard Uni-Directional **--**

Reverse Flow Option **RF**

**Meter Size Code (Inches)**

1/4" to 1/2"	<b>3</b>
3/4" to 1"	<b>4</b>
1.1/4" to 2"	<b>5</b>

**Material**

Aluminium	<b>A</b>
Brass	<b>B</b>
Stainless Steel	<b>S</b>

**Pressure rating**

41 Bar (Air/Gas Aluminium & Brass)	<b>4</b>
69 Bar (Air/Gas Stainless Steel)	<b>5</b>
241 Bar (Liquid Aluminium & Brass)	<b>6</b>
414 Bar (Liquid Stainless Steel)	<b>7</b>

**Fluid**

Air & Gases	<b>A</b>
Oil @ 0.873 SG	<b>H</b>
Water @ 1.0 SG	<b>W</b>

Flow Range l/min	Flow Range SCFM	For Sizes
0.5-4	2-12	<b>01</b> 3 Only
1-8	4-23	<b>02</b> 3 and 4
2-19	5-50	<b>05</b> 3 and 4
5-37.5	10-100	<b>10</b> 3 and 4
5-55	25-150	<b>15</b> 3 and 4
10-75	20-215	<b>20</b> 4 Only
10-95	20-250	<b>25</b> 4 and 5
15-115	30-330	<b>30</b> 4 Only
20-150	30-400	<b>40</b> 4 Only
20-190	40-500	<b>50</b> 4 Only
30-280	30-750	<b>75</b> 5 Only
50-375	150-900	<b>88</b> 5 Only
100-550	150-1300	<b>99</b> 5 Only

Note: SAE porting not available in Brass.

Consult factory for SAE brass meter requirements.