



# UK Flowtechnik

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

## PRODUCT DATASHEET



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## R Series Flow Transmitter Flowmeters



The R Series offer the same versatility as the B Series meter with the addition of a digital or analogue output. Ideal for permanent installations where feedback is required to go back to the control PLC or where flows need to be data logged. These meters can be mounted in any orientation and come in a rugged cast Aluminium housing. Each meter has a 0-5V, 4-20 mA and frequency output allowing it to connect to virtually any system. With scales for water, oil and air/Nitrogen the R Series can be used in most industrial and process applications such as hydraulics, cooling water, air lines & compressors and Nitrogen blankets to name a few.

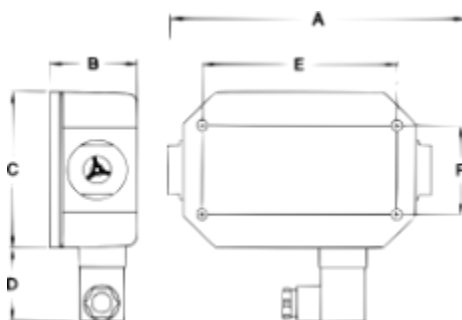
### Features & Benefits

- Linearity 2% of full scale
- Up to 414 Bar pressure rating
- Scales for water and oil
- Viscosity compensated up to 110 cSt
- Horizontal or vertical mounting
- 1-5V , 4-20 mA and frequency output
- <100 mSec response time

### 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	Oil & water (+/- 2% FSD centre 1/3 & ±4% FSD top & bottom 1/3 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>R</b>	<b>3</b>	<b>B</b>	<b>-</b>	<b>6</b>	<b>W</b>	<b>R</b>	<b>-</b>	<b>05</b>	<b>-</b>	
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**Style**  
 Transmitter **R**

**Meter Size Code (Inches)**  
 1/4" to 1/2" **3**  
 3/4" to 1" **4**  
 1.1/4" to 2" **5**

**Material**  
 Aluminium **A**  
 Brass **B**  
 Stainless Steel **S**

**Pressure rating**  
 41 Bar (Air/Gas Aluminium & Brass) **4**  
 69 Bar (Air/Gas Stainless Steel) **5**  
 241 Bar (Liquid Aluminium & Brass) **6**  
 414 Bar (Liquid Stainless Steel) **7**

**Fluid**  
 Air & Gases **A**  
 Oil @ 0.873 SG **H**  
 Water @ 1.0 SG **W**

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

**Style**  
 Standard Uni-Directional **--**  
 Reverse Flow Option **RF**

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.