



## PRIMEPROBE

Bi-directional, insertion, electromagnetic flowmeter for permanent or portable use

<b>Pipe sizes</b>	80mm to >2000mm. Maximum size dependant on position in pipe (for pipe sizes ≤150mm accuracy can be improved by special calibration at the specified pipe size).	
<b>Measurement range</b>	Bi-directional from 0.02m/s to 5m/sec (maximum may be lower dependent upon insertion length and position in pipe)	
<b>Accuracy</b>	Point velocity ≥0.4m/s; ±2%	
<b>(See Note 1 below)</b>	Point velocity <0.4m/s; ±0.8/V% (V = measured water velocity)	
<b>Flow determination</b>	Assumes developed profile (determine via Flow Profiling Software)	
<b>Response time</b>	Liquid speed step variations >0.25m/s;      Liquid speed step variations ≤0.25m/s;	
Continuous mode	300ms	6s
SMART mode	3s	60s
Average mode	6s	120s
Maximum life mode	15s	300s
<b>Minimum fluid conductivity</b>	20µS/cm	
<b>Process connection</b>	1 inch (25mm) BSP threaded end	
<b>Pipeline Pressure rating</b>	25 Bar	
<b>Sensor material</b>	Peek	
<b>Body/electrodes material</b>	Stainless steel AISI 316	
<b>Liquid temperature range</b>	0°C to 60°C	
<b>Safety</b>	Probe fitted with safety/anti-bounce chain	
<b>Pressure tapping</b>	Female quick-release connector	
<b>Adjustment method</b>	5mm Allen key (supplied) fits all screws	
<b>Protection</b>	IP68 (to 1 metre depth)	
<b>Battery type</b>	2 x Lithium cells size D (non-rechargeable)	
<b>Battery life</b>		
Continuous mode	7.8 months	
SMART mode	4.8 years	
Average mode	>8 years	
Maximum life mode	>10 years	
<b>Output signal</b>	Pulses proportional to velocity/flow-rate (max. frequency 100 Hz)	
<b>Communications</b>	USB	
<b>Materials certification</b>	WRAS drinking water material Approval Number 1205543 ACS Approval Number 16ACC LY 116	

### DIMENSIONS IN DETAIL

<b>Nominal probe size</b>	150mm	300mm	500mm	700mm	1000mm	2000mm
<b>Internal ref</b>	0	1	2	3	4	5
<b>Ref</b>	RXG731	RXG732	RXG733	RXG734	RXG735	RXG736
<b>Height of transmitter w/o connector</b>	96mm	96mm	96mm	96mm	96mm	96mm
<b>Height of connector below transmitter</b>	25mm	25mm	25mm	25mm	25mm	25mm
<b>Height of adjustable indicator</b>	20mm	20mm	20mm	20mm	20mm	20mm
<b>Distance of electrodes from tip</b>	30mm	30mm	30mm	30mm	30mm	30mm
<b>Mounting collar BSP/NPT</b>	108mm	108mm	108mm	108mm	108mm	108mm
<b>Maximum insertion length</b>	359mm	509mm	709mm	909mm	1209mm	2209mm
<b>Total length</b>	638mm	788mm	988mm	1188mm	1488mm	2488mm

Note 1; Reference conditions:

- a) Constant flow rate during the test
- b) Pressure: >30 kPa
- c) Flow condition : fully developed flow profile
- d) Zero stability +/- 0,005 %
- e) Pipe internal diameter accuracy: mean value better than 1%

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