



## Flexible flow measurement solutions

Flowmetering solutions are offered for surveying and for permanent installation on pressurised water distribution networks. They are based upon electromagnetic insertion and ultrasonic flow technologies.

### PRIMEFLO-T

Hand-held transit-time ultrasonic flowmeter using dual DSP technology.



### PRIMEPROBE

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



#### FEATURES & BENEFITS AT A GLANCE:



##### Ultrasonic meter for flow surveys

- Monitor network supply, pumps and meters



##### Measure flow on all common pipes

- Monitor flows across whole network



##### Non-invasive sensors

- No drop in pressure, no interruption to supply and no contact with water



##### Integral data logger

- Easy to set up



##### 24 hour battery life

- No need to change battery during survey



##### Variable length insertion probes

- Measure flow on all common pipes with no interruption to supply



##### Measure a wide range of flow rates

- Range between 20mm/s to 5m/s
- Use throughout the network



##### Long battery life up to 10 years

- Low cost of maintenance



##### Rugged - can operate at up to 25 Bar

- Can monitor networks including pumps in extreme conditions



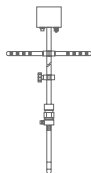
##### Flexible data logging

- Able to connect remotely to Primeweb or SCADA systems via connection to Xilog
- Enables sophisticated convenient data analysis in real time or delayed



FLOW METERS





<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

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