

PrimeProbe2

SMART

Electromagnetic insertion flowmeter

PrimeProbe2 is a bi-directional insertion flowmeter for use in managing water distribution systems. It has no moving parts making it reliable and ideal for use over a wide range of flows. PrimeProbe is suitable for use in pipe sizes from 80mm to 8000mm.

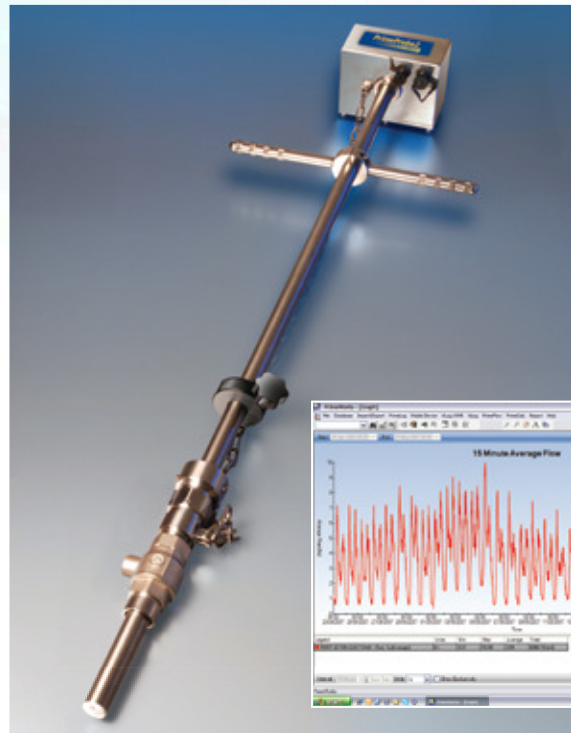
PrimeProbe2 offers the following features:

- Accurate over wide flow range
- Cost effective for monitoring within DMA's
- Measures flow in low conductivity water
- Simple installation:
 - hot-tap into pressurised pipe
 - often no excavation required
 - easy set-up with SMART mode
 - easily moved to another site
- Rugged and reliable - no moving parts
- Long battery life
- Data collection options via GPRS and SMS

Performance

PrimeProbe2 is a rugged device offering the highest specification. The sensor is a special design with the electrodes mounted on the bottom of the sensor tip. This improves the performance at very low flows because the electrodes are positioned where turbulent flow is at the minimum.

Furthermore, **PrimeProbe2** is able to operate in water with conductivity down to 5µSiemens/cm. This means that it can operate in pure water areas such as often found in mountainous regions, etc.



Applications

- Water network management
- Leakage control
- District metering
- Flow surveys
- Flow profiling
- Checking in-situ flowmeters



Flexible data collection

PrimeProbe2 is available with a choice of six insertion lengths; 150mm, 300mm, 500mm, 700mm, 1000mm and 2000mm. It is fitted with a quick release pressure fitting for optional pressure measurement. *PrimeProbe2* has an integral converter for ease of installation, is fully submersible to IP68 and is powered from internal batteries with long life (dependant upon sampling regime and usage pattern). Programming is carried out via USB connection to a computer.

PrimeProbe2 provides a pulsed output which may be connected to Primayer's data loggers for local and remote data collection. Logged flow and pressure data is transferred to *PrimeWorks*, providing extensive graphing, reporting, export, and database facilities.

SMART mode

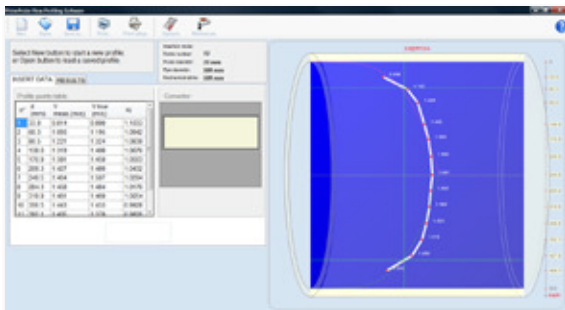
Optimum performance whilst maximising battery life

SMART mode operation automatically adjusts the number of measurements taken when variation of flow-rate occurs. This gives more accurate results when the flow-rate is changing rapidly and also preserves battery life when the flow-rate is stable.

Makes probe set up very easy - just program into SMART mode.

Flow Profiling Software

This software plots the velocity profile across the pipe to enhance conversion of point velocity measurement to flowrate.



PrimeProbe2 system

Part Numbers

| | |
|--|-----------|
| Primeprobe2: length 150mm | RXG 818 |
| PrimeProbe2: length 300mm | RXG 810 |
| PrimeProbe2: length 500mm | RXG 811 |
| PrimeProbe2: length 700mm | RXG 812 |
| PrimeProbe2: length 1000mm | RXG 813 |
| PrimeProbe2: length 2000mm | RXG 829 |
| PrimeProbe2: USB communications cable | RXG 820 |
| PrimeProbe2: output cable to to PrimeLog / XiLog logger | RXG 921 |
| Gauging Rod - 25mm BSP connection: length 500mm | TXG 101/3 |
| Gauging Rod - 25mm BSP connection: length 1000mm | TXG 101/6 |
| System: 150mm probe + gauging rod + PrimeLog 2i + cables + hose + case | RXG 837 |
| System: 300mm probe + gauging rod + PrimeLog 2i + cables + hose + case | RXG 834 |
| System: 500mm probe + gauging rod + PrimeLog 2i + cables + hose + case | RXG 835 |
| System: 700mm probe + gauging rod + PrimeLog 2i + cables + hose + case | RXG 836 |
| Flow Profiling software | RXS 880 |



technology for network management and leakage control

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