PrimeProbe3

Rugged insertion flowmeter for water networks

***PrimeProbe3* 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 and pipe diameters.**

Benefits

- **Insertion lengths available for use in pipe diameters 80mm to over 2000mm**
- **Velocity measurement down to 20mm/sec**
- **Very rugged and for use up to 25 Bar operating pressure**
- **No interruption to supply at installation**
- **Battery life 4.8 years (at sampling every 15 seconds)**
- **Measures flow in low conductivity water**
- **Velocity profile software available for optimum performance**

Optimum Performance

PrimeProbe3 offers high performance over a wide range of pipe sizes and a wide range of flow velocities. Optimum accuracy whilst preserving battery life is achieved in SMART mode. This mode automatically adjusts the number of measurements taken when variation of velocity occurs. This gives more accurate results when the flow-rate is changing rapidly and also preserves battery life when the flow-rate is stable. Other operational modes include continuous rapid sampling for very best accuracy and maximum life mode to preserve battery life.

Applications

- DMA and zonal metering
- Minimum night flow for leakage control
- Network surveys
- Permanent meter testing
- Metering at pumps and reservoirs

Primayer

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technology for network management and leakage control

Flexible data collection

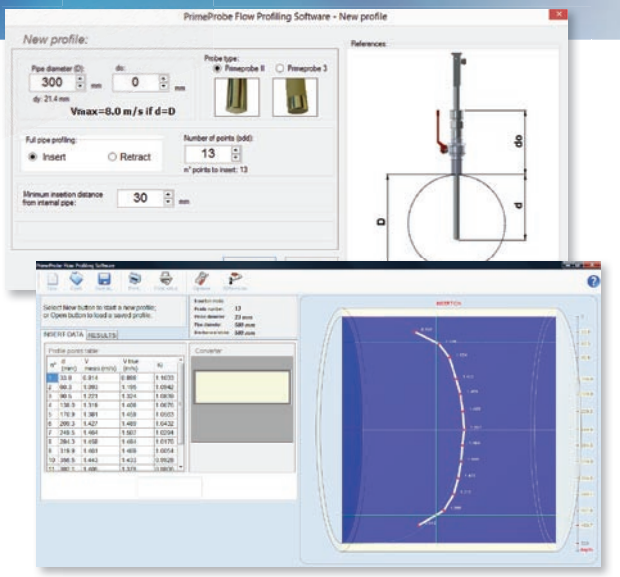
PrimeProbe3 is available with a choice of six insertion lengths; 150mm, 300mm, 500mm, 700mm, 1000mm and 2000mm. It is fitted with a quick release pressure fitting for optional pressure measurement. *PrimeProbe3* has an integral converter for ease of installation and is powered from internal batteries with long life (battery life depends upon sampling regime and usage pattern). Programming is carried out via USB connection to a computer. *PrimeProbe3* provides a pulsed output which may be connected to *PrimeLog*$^{+}$ (for local data collection) or to *XiLog*$^{+}$ (for remote data collection). *XiLog*$^{+}$ data can be transferred to a FTP server and viewed online using PrimeWeb. Logged flow and pressure data can be transferred to *PrimeWorks* or *XAP Desktop*, providing graphing, reporting, export and database facilities.

Operation

PrimeProbe3 is a very rugged device with strong stem and sensor plus a safety chain. It can be used to a maximum pipe pressure of 25 Bar. Waterproofness is to IP68. *PrimeProbe3* 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.

Flow Profiling Software

This software package is available to determine the velocity profile by measuring the velocity at multiple positions across the pipe. This profile then allows more accurate conversion of point velocity measurement to flowrate.



Part Numbers

Primeprobe3: length 150mm	RXG 871
PrimeProbe3: length 300mm	RXG 872
PrimeProbe3: length 500mm	RXG 873
PrimeProbe3: length 700mm	RXG 874
PrimeProbe3: length 1000mm	RXG 875
PrimeProbe3: length 2000mm	RXG 876
PrimeProbe3: USB communications cable	RXG 820
PrimeProbe3: 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
Flow Profiling software	RXS 880

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