



Measurement Products

AquaProbe insertion flowmeter

The next level in flowmeter versatility

AquaProbe has become the first choice for insertion flowmeter applications

Well-established and widely used in installations worldwide, AquaProbe insertion meters need little introduction to anyone connected with clean water flow measurement. Since its launch, the AquaProbe has become the first choice for insertion flowmeter applications and has set the industry standard for probe-based in-situ measurement.

As a company committed to using continuous innovation to meet the needs of its customers, ABB has again gone further to launch the new AquaProbe. As well as the AquaMaster transmitter FEA200 for clean water measurement, the new AquaProbe can now also be used with the ABB WaterMaster transmitter FEA100, opening up a raft of new possibilities in clean water applications.

AquaProbe can be fitted without interrupting the normal water supply with its 'hot tap' capability. This presents the AquaProbe as a flexible, reliable and highly accurate solution for both temporary and permanent installations.

Taking AquaProbe where it has never been before

The AquaProbe FEA100 brings all of the proven benefits of the AquaProbe to a range of applications. Using the WaterMaster transmitter, the AquaProbe FEA100 provides the single insertion metering solution for everything from site surveying to water distribution networks.

The combination of the WaterMaster transmitter with the AquaProbe sensor offers users a wide range of benefits.

Key features and benefits include:

- Choice of PROFIBUS DP or HART 4...20mA communication protocols
- Advanced Digital Signal Processing (DSP), enabling reliable and accurate real-time measurements
- Self-calibrating transmitter offering high stability and repeatability
- OIML-type continuous self-checking, with alarms, help maintain sensor and transmitter accuracy
- Comprehensive self-diagnostics compliant with NAMUR NE107
- Advanced infrared service port, supporting remote HMI, HART, cyclic data out and parameter dump

Even better performance for clean water applications

For clean water measurement applications, there is still the option of the traditional combination of AquaMaster transmitter and AquaProbe sensor, but now with even greater flexibility and performance. The AquaProbe FEA200 features the new AquaMaster 3 transmitter, which adds the option of renewable power to the traditional choices of mains and battery power.

The AquaProbe FEA100 with WaterMaster



Capable of now drawing power from a solar panel or wind turbine, the AquaMaster 3 makes the AquaProbe FEA200 the ideal solution for locations where there is no external power.

For further reliability, even the mains-powered units have a super capacitor back-up to preserve flow measurement in the event of a power shortage.

Key features and benefits include:

- Choice of power options offering flexibility to customers
- Bi-directional flow capability over a wide flow range offers accurate measurement of peak daytime flows and minimal night flows
- Extended battery life of up to 10 years
- Multi-speed, multi-channel, dual variable datalogger offers precise high resolution datalogging capabilities

Common features, uncommon benefits

Both versions of the new AquaProbe share a number of features that make them the first choice of insertion meter offering unrivalled return on investment combined with low cost of ownership.

Reasons to choose the new AquaProbe include:

- ‘Fit and Flow’ design eliminates need to match the probe and transmitter. All calibration factors, site settings, serial numbers and totalizer values are stored in the probe and uploaded to the transmitter during installation
- Easy, low cost installation into existing pipelines without the need for costly and time-consuming installation work required by full bore meters
- Suitable for a wide range of temporary or permanent installations, from long-term leakage monitoring to short term surveys
- Solid state technology without any moving parts, offering low maintenance and high reliability
- Rugged and robust design, providing peace of mind and prolonging product life
- On-board remote communications facilities, including Quad band GSM/SMS, Modbus, Profibus DP, HART, RS485 and RS232 connectivity, enabling data collection and servicing without a field visit

The AquaProbe FEA200 with AquaMaster 3 transmitter



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