



## AquaMaster4... Innovative, Evolutionary, Inspirational



### Invest smartly through 'Single box' DMA (District Metered Areas) solution

Measurement of flow and pressure parameters are critical to optimize your water distribution network. The inbuilt logger functionality provides total flexibility – enabling data to be interrogated, in precise detail, during a period of interest, at even higher time resolution.

...Achieve even more (flow, pressure and logger) with less capital expenditure



### Increase confidence in your revenue billing

Accuracy of flow measurement is key for revenue billing. AquaMaster4 offers the widest flow range [up to R1000], highest accuracy [up to  $\pm 0.2\%$  of reading  $\pm 0.5$  mm/s] and long term stability.

...Deliver accurate bills for true consumption, not estimates



### Have confidence in our flow meters from the wet calibration

ABB's flow calibration facilities are certified by national independent accredited bodies/laboratories. Which are linked by the 'International Laboratory Accreditation Cooperation' (ILAC).

...Have complete confidence in the accuracy of our flow meters



### Receive early warnings for leaks or bursts – minimizing Non-Revenue Water (NRW)

Accurate flow and pressure measurement are essential for understanding non-revenue water in your network. AquaMaster4 with its unique reduced bore sensor enables water utilities to accurately measure flow and pressure at very low flow rates during night. This capability will allow water utilities to separate leaks from consumption.

...Manage leaks and pressure in your distribution network – reduce waste and prioritise OPEX strategically



### Class leading 'Fit and flow' set-up with unique ABB Velox mobile app

AquaMaster4 is the first transmitter to feature a contactless interface using industry standard Near Field Communication (NFC). The dedicated ABB Velox App, available for use with Android & Windows mobile devices, enables configuration changes to be easily made. Simply configure offline and utilize NFC to update the AquaMaster4 configuration. The data logger contents can also be downloaded in CSV format for offline interrogation.

...Delivers increased productivity and simplifies sensor/transmitter configuration



### Achieve lowest total cost of ownership (TOTEX) over complete product lifecycle

A combination of up to 10 years of battery life, readily available off-the-shelf batteries, no need for special cables and dedicated mobile phone applications to increase staff productivity make the AquaMaster4 deliver the lowest TOTEX over complete product lifecycle.

...Achieve a higher return from the investments you make with us



ABB MEASUREMENT & ANALYTICS

## AquaMaster4 electromagnetic flowmeter

For water distribution  
network and revenue  
metering applications  
Measuring every drop  
accurately



Easy and intuitive interface to AquaMaster4

What used to take minutes will take seconds

In practise, many water utilities like many organisations overlook the potential cost savings through increase in productivity of their work force. The level of technologies can make a massive difference in creating a productive and effective workforce.

Velox (Latin word meaning swift) smart phone/tablet app, enables water utilities to increase the productivity (do more in less time) of their work force whilst reducing human errors.



- Secure**

NFC communications are protected by NIST approved strong encryption to avoid eavesdropping or tampering. 'Use Pin' function allow users to lock/unlock the Velox app with their personalised pin. 'Master password' allows users to set an unique password for all their flowmeters.
- Contactless**

A contactless interface using industry standard Near Field Communication (NFC), will allow users to interact with the transmitter without having to connect any cable to laptop.

- Chart and retrieve data**

The Velox app allow users to view the log file on their smart phone/ tablet and download it as CSV file.
- View and Share**

The Velox app allow users to view and share the process values, configuration file and the diagnostics in an easy and intuitive way.

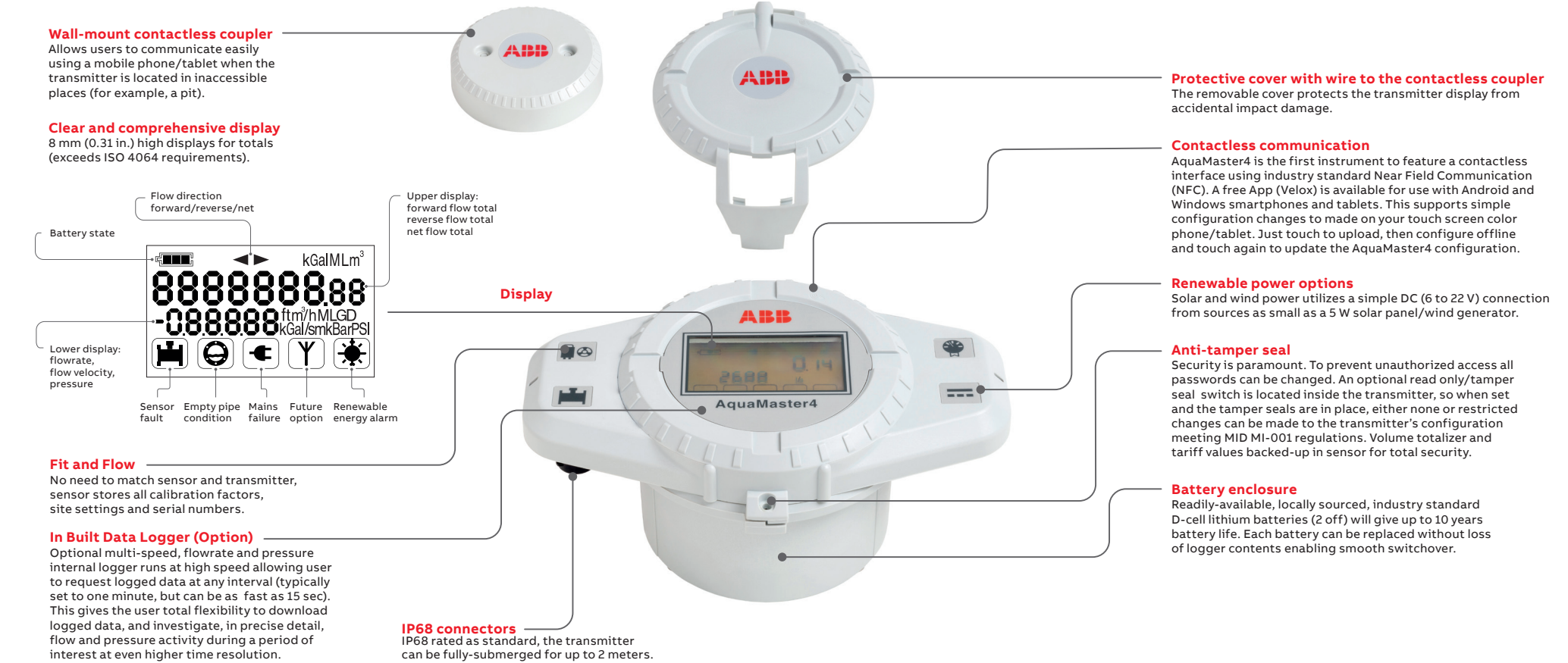
- Configure online/offline**

Users can easily configure or change configuration of the product using the Velox app. This can be done whilst they are away from the site and can save it as a template.
- Easy and intuitive**

The Velox app is easy and intuitive to use, allowing water utilities to deal with deskilling issues and engage younger generations with instruments.

Designed to perform, Built to last

Harness the Power of electromagnetic flowmeters



Advantages for Water Utilities:

\$↗

Widest flow range, highest accuracy and long-term stable calibration, resulting in highest confidence in performance and revenue billing

\$↗

Offline configuration and save as template stops repetition resulting in increase in staff's productivity

\$↘

No need for special cables resulting in lower cost of ownership

\$↗

Interactive app allows easy download of logger file and sharing via email resulting in Increase in staff's productivity

\$↘

Increased battery life resulting in lower cost of ownership

Multiple power options	Configurable features	Interactive phone/tablet app – simple and easy	Communications options	Measurement performance	Environmental conditions
<div><div>Internal batteries (up to 10 years life)</div><div>Solar</div><div>Wind</div><div>AC mains</div></div>	<div><div>In-built logger</div><div>Pressure measurement</div><div>Verification</div></div>	<div><div>Secured and easy</div><div>Contact-less</div><div>Chart and retrieve data</div><div>Offline configuration</div><div>Google Play Microsoft Store</div><div>Easy firmware update</div></div>	<div><div>Pulse output</div><div>Modbus</div><div>Sensus protocol</div></div>	<div><div>Accuracy up to ±0.2% ±0.5 mm/s</div><div>Range [R] up to R1000</div></div>	<div><div>IP68 to 2 m</div><div>-20 to 60 °C</div></div>