

## Maintenance services

### On-site flow products verification and health check



ABB's verification services provide the best possible check of product performance and health without removing the product from the process

#### Measurement made easy

Ensuring consistent performance and product health for the lifetime of your flowmeters

#### Why verify your product health and accuracy?

It is essential to carry out periodic product verifications to ensure performance has not deviated significantly from specified tolerances. This is especially important for custody transfer or billing applications where significant costs can be avoided or income can be generated.

In-situ flowmeter verification of products is a considerably lower cost option compared with full removal and wet calibration. Trends in historical verification measurements can predict future problems allowing scheduled maintenance decisions to be made rather than costly unscheduled essential maintenance when a failure does occur.

#### Why choose ABB Service?

A combination of our skilled workforce, state-of-the-art tools, access to the product experts and our dedication to customers make ABB Service the perfect choice for all your maintenance requirements.

ABB's strong health and safety culture underpins all our actions ensuring we work safely at all times. All maintenance work is conducted in accordance with all local regulations and in conformance with ISO quality management systems.

Flow service catalog



Flow service website



Flow commissioning services



## Benefits of ABB verification services

**Process optimization** – reduce raw material cost, increase process speed & data accuracy

**Process availability** – reduction in unscheduled maintenance ensuring maximum uptime of your plant or process

**Safety** – regular calibration, consistent intervals and record keeping help minimize accidents

**Regulatory compliance** – independent verification of calibrations, third party signed certificates for record keeping

**Custody transfer** – improved accuracy, independent verification of calibration

## ABB verification services

ABB has a whole suite of verification tools and services available to suit your needs. The tools we use are designed to check the measurement circuitry of the sensors, cabling and electronics; including the outputs. The measurements performed in the field are compared with a baseline set of measurements performed when the product was first manufactured – known as the fingerprint. By performing these tests together with a thorough visual examination, a technician is able to judge whether the product is performing correctly or not.

To further validate that the measurement is accurate the electronics can be tested using a flow simulator and / or the flow rate in the pipe can be checked using an ultrasonic clamp-on flow meter.



Figure 1 ABB verification tools