

# Maintenance services

## Calibration of thermal mass flowmeters



Regular calibration helps maximize productivity and profitability

### Measurement made easy

Thermal mass calibration services

### Should I arrange for calibration at my site or at ABB's?

ABB's thermal mass flow meters (for example, Sensyflow FMT700-P series) are commonly used in test stands by the automotive industry. Some automotive companies have more than twenty units in operation at once.

The measurements these instruments make are critical to understanding the performance and efficiency of an engine, so annual calibration is highly recommended and often a requirement.

For off-site calibrations, ABB has a fast turnaround service to ensure your instruments return within a month and also an express service available on request. When you have large numbers of thermal mass flow meters, the administration work arranging for re-calibrations can be time consuming – a service contract would help reduce this time.

If you have more than ten units requiring recalibration each year then it might save you more time and money if we bring the calibration equipment to you and calibrate all your Thermal mass units at one time.

### Mobile calibration process explained

ABB's mobile calibration rig is transported to your site in a container and positioned in an area close to your engine test stands.

We only require a 3-phase power supply and a connection to your compressed air supply.

Once the equipment is set-up we will connect your thermal mass flow meter together with its inlet / outlet pipework to our calibration rig.

The instrument is then calibrated to the same level of accuracy as normal:

- Measurement Uncertainty:  $\pm 0,8\%$  v.M.
- Volume flow: 150 – 3,600 m<sup>3</sup>/h
- Mass flow: 180 – 4,340 kg/h
- Operating pressure: Atmospheric  $\pm 200$  mBar

Flow service catalog



Flow service website



Flow calibration



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Broad range of  
calibration services  
to suit your needs

## Benefits of ABB calibration services

**Cost reduction** – commissioned right first time, quickly and efficiently

**Process optimization** – high performing products reduce raw material cost, increases process speed and data accuracy

**Process availability** – correct commissioning ensures maximum uptime of your plant or process.

**Safety** – all safety aspects of commissioning taken care of with a signed report from the professionals.

**Warranty extensions** – work conducted by highly trained ABB service technicians with extended product warranties

## Calibration at ABB

**Cost reduction** – for small numbers of units, sending off for calibration will save you money

## On-site calibration

**Cost reduction** – for sites with more than 10 units, on-site calibration will save you approximately 4 hours per unit in administrative activities



ABB's mobile calibration facility

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To find your local ABB contact, visit:

[abb.com/contacts](http://abb.com/contacts)

For more information visit:

[abb.com/measurement](http://abb.com/measurement)

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