



# Thermal mass flowmeter

## SensyMaster FMT400



The SensyMaster FMT430 offers a high quality and cost effective solution for precise and dynamic direct mass flow measurements of gases in low and medium pressure conditions to meet the needs of all industrial standard applications.

The FMT450 adds high accuracy and extended functionality for advanced industrial applications. SensyMaster's concept comprises high grade thermal sensor elements with superior long-term stability, the common ABB look and feel with ABB specific menu structures and through-the-glass-operation and the ABB platform based electronics with comprehensive signal evaluation capabilities for a high degree of performance and reliability. The software offers the ApplicationSelector that allows to change application parameters and create new applications on site and VeriMass the fingerprint based thermal sensor element verification function.

Both integral and remote mount design is available with or without local display and HART communication supporting the modular I/O and the SmartSensor concept. Both models offer easy to understand diagnostic messages for improved operator efficiency.

The SensyMaster FMT430 is ideally suited for all industrial standard applications, the FMT450 for advanced industrial application.



**Product selection assistant**  
Comprehensive tool for selecting the most suitable technology for your application

**Leaflet: SensyMaster**  
High quality and cost effective solution for precise and dynamic direct mass flow measurement for gases

**Handbook: Industrial flow measurement**  
Basics and practice



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### Overview

Precise and dynamic direct mass flow measurement of gases for industrial standard applications.

- High-grade thermal sensor elements
  - superior long-term stability
  - effective sensor element protection frame with flow conditioning properties
- SmartSensor solution
  - Meter intelligence located at the sensor
  - all digital solution
  - reduced wiring costs with industry standard connection cables
  - long cable distances are possible
- SensorApplicationMemory
  - Plug and play electronics replacement
  - Redundant data storage for maximum data security
- ABB common electronic concept
  - Through-the-glass operation
  - Modular I/O Concept
  - Multiple 32-bit processor structure
  - full digital heating circuit control
  - dynamic temperature compensation
- ApplicationSelector
  - Adaption of the characteristic application parameters on site
  - choice between up to two applications (FMT430)
  - choice between up to eight applications (FMT450)
  - setup new applications without the need for recalibration (FMT450)
- VeriMass onboard verification and diagnostics
  - Fingerprint based SensorCheck to verify the integrity of the thermal sensor elements
  - continuous health check of the meter
  - parameter plausibility check

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