

## HART ABB Flow Meter Thermal Mass Flowmeter Sensyflow FMT700-P And FMT700-P Compact

Our Product Introduction

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### Basic Information

- Brand Name: ABB
- Model Number: FMT700-P and FMT700-P Compact



### Product Specification

- Accuracy: High
- Communication Protocol: HART, PROFIBUS, FOUNDATION Fieldbus
- Fluid: Gas, Liquid
- Installation Type: In-line, Insertion
- Material: Stainless Steel, Alloy Steel, Titanium
- Measuring Principle: Differential Pressure
- Output Signal: 4-20mA
- Pressure Range: 0-100Bar
- Process Connection: Flange, Thread, Sanitary
- Product Name: ABB Flow Measurement Products
- Product Type: Flow Measurement
- Range: Wide
- Temperature Range: 0-150
- Warranty: 1 Years
- Highlight: **FMT700-P ABB Flow Meter.**

## Product Description

### Thermal mass flowmeter Sensyflow FMT700-P and FMT700-P Compact

Sensyflow FMT700-P is for direct mass flow measurement of air. The measurement is independent of operating pressure and temperature. It supplies best accuracy together with an unrivalled response time. Used in quality assurance, test bench applications, research and development. It is the reference system for intake air measurement of the leading car manufacturers worldwide.

#### Overview

The measuring system comprises a flowmeter sensor (measuring tube), a measuring section and a supply / evaluation unit. The FMT700-P Compact has an integrated transmitter.

The sensor is designed as a measuring tube and accommodates the measuring elements. The meter tube is available in six nominal diameters ranging from DN 25 to DN 200 and is installed in the measuring section by using quick-clamping connectors.

The measuring section consists of inlet and outlet sections of the appropriate size and of an air filter or flow conditioner which can be connected – e.g. to an air duct – via the connection piece on the suction side.

The Sensyflow FMT700-P Compact can simultaneously operate one analog output (current 0 / 4 to 20 mA or voltage 0 to 5 / 10 V), one digital output (frequency, pulse, alarm) and a serial RS232 interface.

The supply / evaluation unit is available as a 19" plug-in version or as a desktop unit. It provides the power supply for the sensor and converts its flow-dependent current signal into standard analog mass flow signals. The unit with a 6-digit display is suitable for all measuring tubes and automatically identifies the appropriate nominal diameter. Further diagnostic functions allow simple and safe operation.

#### Data

Direct mass flow measurement of air

– No additional pressure and temperature compensation required

High measuring accuracy over the entire measuring range

– Measuring accuracy up to < 0.8 % of measured value

Wide measuring range of up to 1:60

– Measurement up to 5000 kg/h

– DN 25 to DN 200

Quick response time < 25 ms

– Detection of rapid load changes on engine test benches

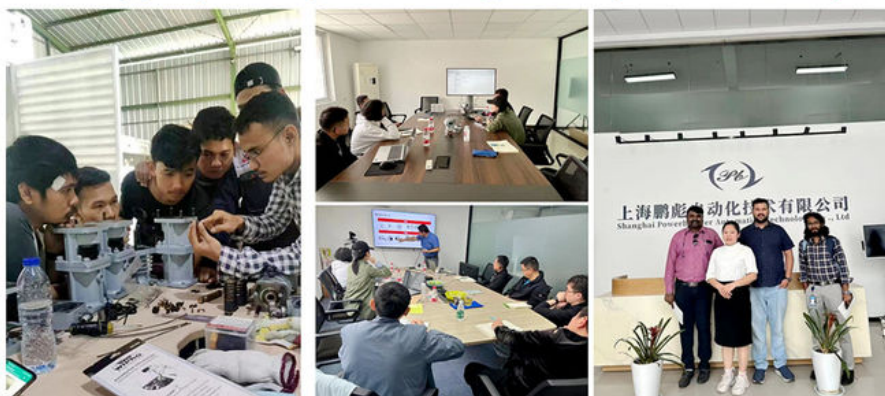
Complete system with inlet / outlet sections, flow conditioner and connection parts

– Easy to use

– Ready for operation

Used in test bench applications, quality assurance, research and development

**Inner training, pre-shipment training, onsite commissioning, onsite training—Focus on detail and complete**



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