

FSV450 ABB Flow Meter Vortex Flowmeter VortexMaster

Our Product Introduction

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Basic Information

- Brand Name: ABB
- Model Number: FSV450



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: FSV450 ABB Flow Meter,



More Images



Product Description

Vortex flowmeter VortexMaster FSV450

VortexMaster FSV450 is the universal vortex meter for high end flow applications. It uses a two-wire transmitter with leading edge DSP-technology with enhanced flow computer functionality. Signals from remote sensors like pressure, temperature, density or gas content can be read in by an integrated analog 4 ... 20 mA interface and computed directly with the flow and temperature signals measured by the device itself. FSV450 is ideal for direct mass flow or standard flow of gasses and liquids or direct mass and energy flow on saturated and overheated steam.

Looking for a flowmeter that can be installed where others cannot due to space restrictions?
Learn more about the [SwirlMaster FSS450](#).

Overview

VortexMaster flowmeters are used for accurate measurement of the flow of gas, liquid and steam over a wide temperature range. Vortex meters are ideal for measuring low viscose liquids, demineralized water and direct steam mass flow, and they are ideal for cost-effective, integral temperature measurement.

VortexMaster FSV450 is the advanced version with additional analog input for mass or energy flow measurement, available with integral or remote transmitter with up to 30 m (98 ft.) cable length. Because of the optional inputs, discrete flow computers are no longer needed in many applications.

Standard features:

Our Product Introduction

HMI for easy meter set up
Analog 4 ... 20 mA input
Integrated RTD for temperature compensation and saturated steam mass flow calculation
Digital outputs for pulses, frequency, and alarm signalization

Optionally available:

Remote transmitter with up to 30 m (98 ft.) cable length
Stainless steel transmitter housings
SIL 2

Data

General specifications:

- Intuitive operation
 - Easy Set-up function
 - Clear text display
 - Meter configuration through the front glass with closed cover
- Accuracy for liquids
 - +/- 0.65% of rate
- Accuracy for gases and steam
 - +/- 0.9% of rate
- Process connection / meter sizes
 - Flange-mount design / DN 15 to 300 (1/2 to 12 in.)
 - Wafer type design / DN 25 to 150 (1 to 6 in.)
- Approvals for explosion protection
 - ATEX, IECEx, cFMus, NEPSI
- SIL2-certified in accordance with IEC 61508
- Output / communication
 - 4 to 20 mA / HART 7
- Optional binary output
 - For use as a limit switch, pulse output or frequency output
- Optional input from field
 - Pressure, temperature, methane content, density gas analyzer
- Integrated flow measurement computer functionality
 - Gas standard volume and mass flow
 - Vapor mass flow
 - Direct energy calculation for vapor and water
 - Natural gas calculation in accordance with AGA /SGERG standards

Our Clients:



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



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