

FSS450 ABB Swirl Flowmeter SwirlMaster High Accuracy

Our Product Introduction

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Basic Information

- Brand Name: ABB
- Model Number: FSS450



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: **FSS450 swirl flowmeter.**



More Images



Product Description

Swirl flowmeter SwirlMaster FSS450

SwirlMaster FSS450 is the universal but unique Swirl meter for high-end flow applications. It uses a two-wire transmitter with leading edge DSP-technology with advanced flow computer functionality. Signals from remote sensors like pressure, temperature, density or gas content can be computed directly with the signals from internal flow and temperature. FSS450 is ideal for direct mass flow or standard flow of gases and liquids or direct mass and energy flow on saturated and overheated steam.

Overview

Swirl flowmeters are used for highly accurate measurement of the flow of gases, liquids and steam over a wide range of temperatures in almost any application. Swirl meters are ideal for use on low viscose liquids, demineralized water, and for direct, cost-effective steam mass flow.

SwirlMaster FSS450 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:

- 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:

- Easy assembly
 - Only the shortest possible straight pipe lengths are required
 - Measuring ranges have been well adopted to the flow rates
- Intuitive operation
 - Easy Set-up function
 - Clear text display
 - Meter configuration through the front glass with closed cover
- Accuracy for liquids, gases and steam
 - +/- 0.50% of rate
- Process connection / meter sizes
 - Flange design / DN 15 to 400 (1/2 to 16 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

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



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