

Coriolis mass flowmeter CoriolisMaster FCH430 and FCH450

Basic Information

- Brand Name: ABB
- Model Number: FCH430 and FCH450



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: coriolis mass flowmeter coriolismaster ,



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Product Description

CoriolisMaster FCH400 series of compact Coriolis mass flowmeters for hygienic applications feature low pressure drop, high capacity, intuitive ABB common display, five modular I/Os and various communication protocols. The FCH400 series offers on top EHEDG certified cleanability with polished wetted materials.

Overview

With no up or downstream piping requirements the compact Coriolis flowmeters can be installed in the tightest spaces, enabling applications not possible before.

The FCH400 series delivers:

- Designed for hygienic applications
 - EHEDG certified
- Up to five modular I/Os
 - Multivariable meter design
 - Optional plug-in cards
 - Automatic firmware update
 - Various communication protocols available
- SmartSensor
 - All digital solution
 - Installation flexibility
 - Meter intelligence located in the sensor
- SensorApplicationMemory
 - Maximum data security
 - Plug and play electronics replacement
- ABB common look and feel
 - Easy Set-up
 - Operation through the glass via capacitive keys
- VeriMass on-board verification and diagnostics
 - Online preventive maintenance
 - Extended maintenance cycles
 - Reduced maintenance effort
- Designed for 70 °C (158 °F) ambient temperature and high vibrations
- Enhanced Coriolis control (ECC) option for advanced measurement for multiphase conditions and other challenging fluids
- Lower pressure drop
- Self-draining
- Global approvals for explosion protection

The FCH450 adds:

- DensiMass software for direct concentration measurement
- FillMass software for filling application control

Data

General specifications:

Our Clients:



Our Partners:



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



Nominal sizes / measuring ranges

- DN 25 (1 in.) / 0 to 35,000 kg/h (77,162 lb/h)
- DN 50 (2 in.) / 0 to 90,000 kg/h (198,416 lb/h)
- DN 80 (3 in.) / 0 to 250,000 kg/h (551,156 lb/h)

Ex approvals

- ATEX zone 0/1/2, cFMus Div 1/2 and zone 0/1/2
- NEPSI Zone 0/1/2
- Various other approvals

Hygienic approvals

- EHEDG and FDA material compliant

Wetted materials

- 1.4404 / 1.4435 (316L)

Accuracy for liquids

FCH430

- Mass and volume: 0.4 % o. r. / 0.25 % o. r. / 0.2 % o. r.
- Density: 10 g/l

FCH450

- Mass: 0.15 % o. r. / 0.1 % o. r., volume: 0.15 % o. r.
- Density: 2 g/l or 1 g/l

Measuring medium temperature

FCH430

- -50 to 160 °C (-58 to 320 °F)

FCH450

- -50 to 205 °C (-58 to 400 °F)

Outputs

- 5 modular I/Os
- HART 7.1
- PROFIBUS DP
- Modbus
- Ethernet

Ethernet IP

Modbus TCP

Webserver

More protocols in preparation

Power supply

- 11 to 30 V DC, 110/230 V AC
- Power over Ethernet