

## ABB Coriolis mass flowmeter CoriolisMaster FCB430 and FCB450 Accurate flow measurement of liquids and gases

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: ABB
- Certification: CE
- Model Number: FCB430 FCB450
- Minimum Order Quantity: 1
- Price: USD 100-10000 per pieces
- Packaging Details: Wooden Case
- Delivery Time: 3 days
- Payment Terms: D/A, L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 1000 pieces per month



### Product Specification

- Nominal Sizes / Measuring Ranges: – DN 15 (1/2 In.) / 0 To 8,000 Kg/h (17,637 Lb/h) – 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) – DN 100 (4 In.) / 0 To 520,000 Kg/h (1,146,404 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
- Wetted Materials: – 1.4404 / 1.4435 (316L) Or Hasteloy C
- Accuracy For Liquids: FCB450 – Mass: 0.15 % O. R. / 0.1 % O. R., Volume: 0.15 % O. R. – Density: 0.002kg/m3 Or 0.001kg/m
- Measuring Medium Temperature: FCB430 – -50 To 160 °C (-58 To 320 °F) FCB450 – -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



### More Images



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## Product Description

### ABB Coriolis mass flowmeter

#### CoriolisMaster FCB430 and FCB450

CoriolisMaster FCB400 series of compact Coriolis mass flowmeters feature low pressure drop, high capacity, intuitive ABB common display, five modular I/O's and various communication protocols.

A wide range of meter sizes provide precise measurement of massflow, volume flow, density, temperature and concentration. ABB's CoriolisMaster series has a history of success in a wide variety of industries and applications. With innovations like SensorApplicationMemory, Easy Set-up and with up to 5 modular I/Os - they save time and money during installation, commissioning and maintenance.

Benefits of using ABB's CoriolisMaster flowmeters:

- Save cost by making several measurements with one device
- Reduce flowmeter maintenance by up to 90 %
- No mechanical wear and minimize installation issues
- Save up to 25 % on pump power
- Save critical installation space

#### 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 FCB400 series delivers:

- 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 FCB450 adds:

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

#### Data

General specifications:

Nominal sizes / measuring ranges

- DN 15 (1/2 in.) / 0 to 8,000 kg/h (17,637 lb/h)
- 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)
- DN 100 (4 in.) / 0 to 520,000 kg/h (1,146,404 lb/h)
- DN 150 (6 in.) / 0 to 860,000 kg/h (1,895,975 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

Wetted materials

- 1.4404 / 1.4435 (316L) or Hasteloy C

Accuracy for liquids

FCB430

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

FCB450

- Mass: 0.15 % o. r. / 0.1 % o. r., volume: 0.15 % o. r.
- Density: 0.002kg/m<sup>3</sup> or 0.001kg/m

Measuring medium temperature

FCB430

- -50 to 160 °C (-58 to 320 °F)

FCB450

- -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



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