

Coriolis mass flowmeter CoriolisMaster FCB130 and FCB150

Our Product Introduction

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Basic Information

- Brand Name: ABB
- Model Number: FCB130 and FCB150



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.

Product Description

CoriolisMaster FCB100 series of compact system integration flowmeters feature low pressure drop, high flow capacity, high speed RS485 Modbus communication and 2 digital outputs.

Overview

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

The FCB100 series delivers:

- Superior accuracy and speed for filling applications
- Full parameter access with up to 115 kBaud

Our Product Introduction

Aluminum housing or all stainless steel solution
DTM based diagnostic and operability functions

The sensor delivers:

Multivariable measurement of mass flow, density and temperature in one device
Low pressure drop save 25 % on pump energy costs compared to other brands
Wide measurement span in a single meter

FCB150 adds:

DensiMass: High accuracy concentration measurement, watercut and net-oil computing as well as net-mass and net-volume measurement
FillMass: Filling application software with integrated precounter, over- and underfill correction and contact output for valve 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

Wetted materials

– 1.4404 / 1.4435 (316L) or Hasteloy C

Accuracy for liquids

FCB130

– Mass and volume: 0.4 % o. r. / 0.25 % o. r.

– Density: 10 g/l

FCB150

– 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

FCB130

– -50 to 160 °C (-58 to 320 °F)

FCB150

– -50 to 205 °C (-58 to 400 °F)

Outputs

– 2 digital out (pulse, frequency, contact)

– Modbus

Power supply

– 11 to 30 V DC

Our Clients:



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