

## FCB430 FCB450 ABB Flow Meter Coriolis Mass Flowmeter CoriolisMaster

Our Product Introduction

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### Basic Information

- Brand Name: ABB
- Model Number: FCB430 and FCB450
- Minimum Order Quantity: 1
- Price: 100
- Packaging Details: 11
- Delivery Time: 20 days
- Payment Terms: L/C
- Supply Ability: 11



### Product Specification

- Accuracy: High
- Cost: Reasonable
- Durability: High
- Environmental Impact: Low
- Installation: Easy
- Linearity: High
- Maintenance: Low
- Pressure Loss: Low
- Product Name: ABB Flow Measurement Products
- Rangeability: Wide
- Repeatability: High
- Response Time: Fast
- Signal Noise: Low
- Signal Output: High
- Stability: High



### More Images



## Product Description

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, now with OIML R117 and MID approved.

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

Sensor				
Model	FCB400 standard design		FCH400 hygienic design	
Chassis		Integral mount design, remote mount design		
Measuring accuracy for liquids	FCB430	FCB450	FCH430	FCH450
Mass flow*	0.4%.0.25%and 0.2%	0.1% and 0.15%	0.4%,0.25% and 0.2%	0.1% and 0.15%
Volume flow*	0.4%.0.25%and0.2%	0.15% and0.11%	0.4%.0.25%and 0.2%	0.15%and 0.11%
Density	0.01kg/l	0.002kg/l 0.001kg/l (optional) 0.0004kg/l (optional)	0.01kg/l	0.002kg/l 0.001 kg/l (optional) 0.0004kg/l (optional)
Temperature	1K	0,5K	1K	0,5K
Measuring accuracy for gases*	1%	0.5%	1%	0.5%
Permissible measuring medium temperature	-50 to 160°C (-58 to 320F)	-50 to 205°C (-58 to 400F)	-50 to 160°C (-58 to 320F)	-50 to 205C (-58 to 400F)
Process connection				
Flange DIN 2501/EN 1092-1	DN 10 to 200 PN 40 to PN 160		—	
Flange ASME B16.5	DN 2/1 to 8 in CL150 to CL1500		—	
Jis flange	DN 10 to 200: JIS 10K to 20K		—	
Pipe fitting DIN 11851	DN 10 to 100 (3/8 to 4 in)		DN 20 to 100 (% to 4in)	
Pipe fitting SMS 1145	DN 25 to 80 (1 to 3in)		—	
Tri-clamp DIN 32676(ISO2852) Tri-clamp BPE	DN 15 to 100 (1/4 to 4in) DN3/8 to 4in		DN 20 to 100 (%4 to 4in) DNW:to 4in	
Female thread DIN ISO 228 andASME B 120.1	DN 15 PN100		—	
Other connections	On request		Onrequest	
Wetted material	Stainless steel1.4435 or 1.4404(AISI 316L), nickel alloy C4/C22		Stainless steel, polished 1.4404 (AISI 316L) or 1.4435(AISI 316L)	
IP rating	Integral mount design: IP 65 / IP 67, NEMA 4X Remote mount design: IP 65 /IP 67/IP 68 (sensor only, immersion depth:5m), NEMA 4X			
Approvals				
Explosion protection	ATEX/IECEX/UKEX/cFMus /EAC-Ex		ATEX /IECEX/UKEX/cFMus/EAC-Ex	
Hygiene approvals	—		FDA compliant	
Legal metrology	OIML R117, MID, devices for legal metrology in accordance with API /AGA			
Further approvals	At www.abb.com/flow or upon request.			

**The FCB400 series delivers:**

- Up to five modular I/Os
  - Multivariable meter design
  - Optional plug-in cards
  - Automatic firmware update
  - Various communication protocols available:  
EthernetIP, Modbus TCP, Web Browser and Profinet
- 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
- OIML R117 and MID approved

**The FCB450 adds:**

- DensiMass software for direct concentration measurement
- FillMass software for filling application control
- OIML R117; MID approved

**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
  - OIML R117; MID approved
- 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: 0.002 kg/m<sup>3</sup> or 0.001kg/m<sup>3</sup> needs to extend to 0.0004 kg/m<sup>3</sup>

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

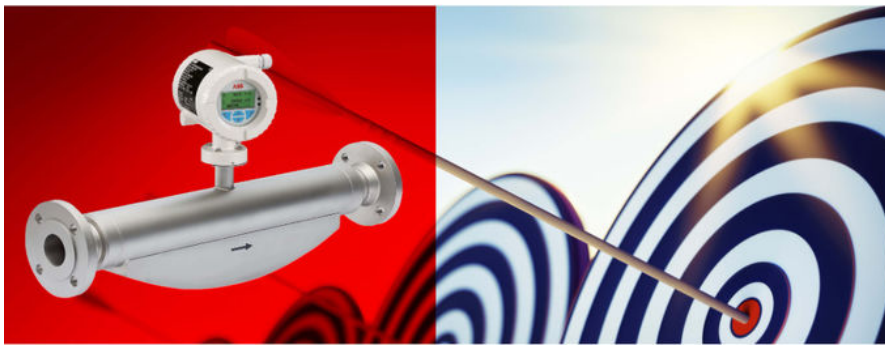
Webserver

More protocols in preparation

Power supply


– 11 to 30 V DC, 110/230 V AC


– Power over Ethernet



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