

# mini CORI-FLOW™ Ex d

Coriolis Mass Flow Meters for small flow rates in flameproof enclosure

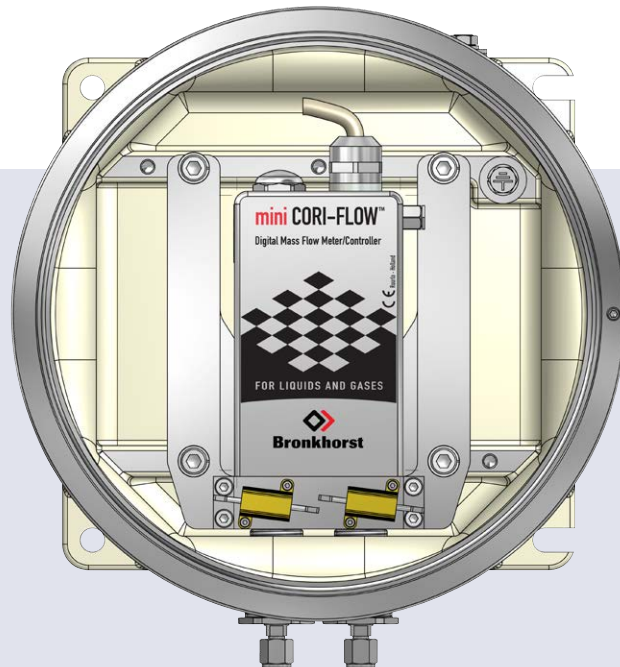


## Introduction

Bronkhorst® manufactures low-flow Coriolis Mass Flow Meters and Controllers for gases and liquids. The product range offers true mass flow in a range from 5 g/h up to 600 kg/h (Full Scale values). The **mini CORI-FLOW™** Series M12-M14 are designed for capacities from 100 mg/h up to 30 kg/h. This compact mass flow instrument can be built in an explosion proof housing for use in IECEx and ATEX Zone 1 areas. All electrical instrument connections are available on screw terminals in an electrical housing connected to the **Ex d box**. External actuators can be connected to the integrated flow controller.

## IECEx and ATEX approval

The mass flow meters, operating via the Coriolis principle, are now available with IECEx and ATEX approval II 2 G Ex d e IIB T6 Gb for use in hazardous areas. Hereto the instrument is built into a rugged enclosure with separated compartment for the electronics. The flow meters, suitable for both liquid and gas flow applications, cover flow rates from 0,1 g/h to 30 kg/h and can be used in systems with pipeline pressures up to 140 bar (2000 psi).



mini CORI-FLOW™ build in an Ex d housing for use in hazardous areas.

The unique design of the miniature Coriolis sensor features superior response time and high accuracy, irrespective of changing operating conditions with regard to pressure, temperature, density, conductivity and viscosity.

## Features

- > direct mass flow measurement, independent of fluid properties
- > fast and stable control
- > high accuracy, excellent repeatability
- > multi-range: easy on site re-ranging via digital interface (effective turndown 2000:1, typical M13)
- > additional density and temperature outputs
- > bi-directional measurement
- > optional: instrument temperature control
- > optional: display module
- > IECEx and ATEX approval II 2 G Ex d e IIB T6 Gb for use in Zone 1 hazardous areas

