



# EL-FLOW<sup>®</sup> Base

Mass Flow Controllers for Gases



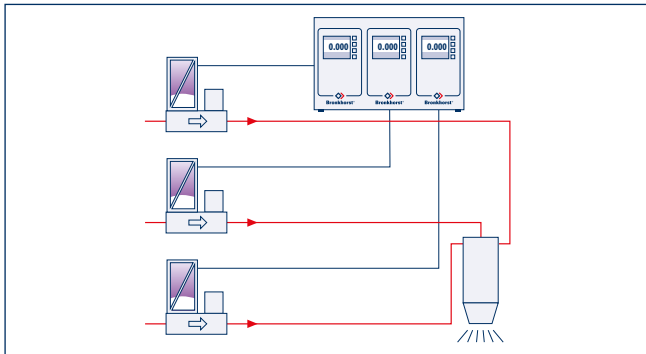
## › EL-FLOW® Base fast response Mass Flow Controllers for OEM applications

The Mass Flow Controllers of the EL-FLOW® Base series are standard and straightforward instruments. They provide accurate measurement, fast response and stable control in common gas flow applications. EL-FLOW® Base is an economical solution for installation in (OEM) systems e.g. in coating or welding applications. The instruments operate on the principle of thermal mass flow measurement in ranges starting from 0,2...10 ml<sub>n</sub>/min up to 4...200 l<sub>n</sub>/min air-equivalent. They offer analog I/O-signals as well as digital RS232 communication and/or Modbus-RTU as a standard feature. EL-FLOW® Base is a member of Bronkhorst's most popular and field proven EL-FLOW® series.

### › Fields of applications

- ◆ Process gas measurement and control in food, pharmaceutical and (petro-) chemical industries and fermentation installations
- ◆ Burner control (welding)
- ◆ Surface treatment (CVD, coating, hardening)
- ◆ Solar cell fabrication
- ◆ Analytical instrumentation

### › Burner control



Burner control using Mass Flow Controllers brings many advantages compared to conventional systems, where flow is adjusted through needle valves. When burner orifices get clogged or when gas supply pressure varies, an MFC will automatically adapt to the changed conditions.

## › Models and flow ranges

Model	min. flow	max. flow
F-201CB	0,2...10 ml <sub>n</sub> /min	0,4...20 l <sub>n</sub> /min
F-201AB	0,4...20 l <sub>n</sub> /min	1,4...70 l <sub>n</sub> /min
F-202BB	1,4...70 l <sub>n</sub> /min	4...200 l <sub>n</sub> /min

*Ranges based on Air, intermediate ranges available.*

## › Features

- ◆ Accurate mass flow measurement/control
- ◆ Fast response, excellent repeatability
- ◆ Virtually pressure and temperature independent
- ◆ Cost effective solution
- ◆ Analog I/O-signals: 0...5 (10) Vdc or 0(4)...20 mA
- ◆ RS232 communication
- ◆ Modbus-RTU or -ASCII
- ◆ Control characteristics digitally configurable by user



EL-FLOW® Base model F-201AB Mass Flow Controller

All instruments and accessories are warranted for a period of 3 years from delivery date.



[www.bronkhorst.com](http://www.bronkhorst.com)

Bronkhorst High-Tech designs and manufactures innovative instruments and subsystems for low-flow measurement and control for use in laboratories, machinery and industry. Driven by a strong sense of sustainability and with many years of experience, we offer an extensive range of (mass) flow meters and controllers for gases and liquids, based on thermal, Coriolis and ultrasonic measuring principles. Our global sales and service network provides local support in more than 40 countries. Discover Bronkhorst®!

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