

# FLOW-SMS

## Mass Flow Surface Mount Solutions

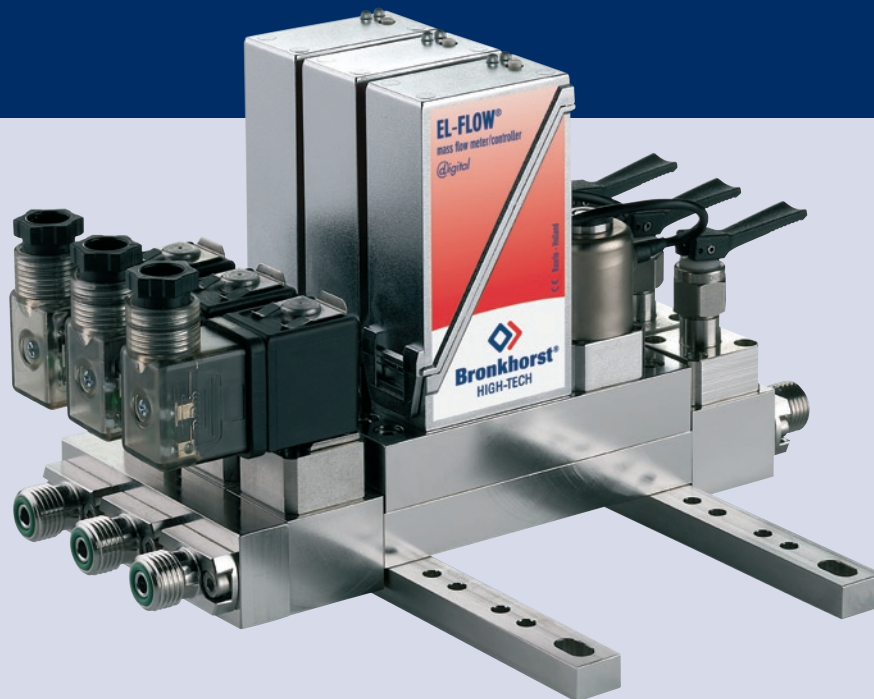
### > Introduction

Bronkhorst High-Tech B.V., European leader in Thermal Mass Flow Meters/Controllers and Electronic Pressure Controllers, has 25 years experience in designing and manufacturing precise and reliable measurement and control devices. With a wide range of instruments, Bronkhorst High-Tech is offering innovative solutions for many different applications in many different markets. The instruments are made to customers' specification, with configurations that are suitable for use in laboratory, industrial environment, hazardous areas or semiconductor installations.

### > Description

Many customers are looking for solutions of combining various functions into one compact design. In close co-operation with a number of customers Bronkhorst High-Tech developed the FLOW-SMS series. On a compact, lightweight but still rugged mounting rail system one or more mass flow or pressure sensor modules can be combined with control valves, shut-off valves, mixing chambers, filters or any other functional module as per customer's request.

The specifications are open for discussion. The ranges for the flow sensor can be selected between approx. 5 ml<sub>n</sub>/min up to 50 l<sub>n</sub>/min or even higher. In case a pressure sensor is included, the pressure range can be chosen between 0-100 mbar and 0-10 bar absolute or gauge. Depending on the application the customer may prefer a system with compression type couplings, face seal fittings or flanges according to customers' specification. On request, the system will be assembled, tested, and packaged in a cleanroom. Because of the infinite number of possible solutions, we recommend you to contact our nearest distributor to discuss your application.



### > Features

- ◆ Compact assembly ensures space efficiency
- ◆ Economical solution, low cost of ownership
- ◆ Tubeless construction reduces potential leak points
- ◆ Down-ported; easily accessible from the top
- ◆ Pre-tested 'Plug and Play' units, reducing custom testing requirements
- ◆ Analog or digital communication (RS232, DeviceNet™, PROFIBUS®, Modbus, FLOW-BUS)

### > Fields of application

The FLOW-SMS Series has great potential in many different markets, for instance in:

- ◆ Semiconductor and electronics industries
- ◆ Industrial processes
- ◆ Medical and pharmaceutical systems
- ◆ Analytical applications
- ◆ Biotechnological and chemical installations
- ◆ Food and beverage processes

