

# MA-De

Article-No. 42113-1211-XXX



## YOUR BENEFIT CHARACTERISTICS

- + Easy determination of volume flow before consumer load and distribution piping
- + High-end sensor with stainless steel mechanics
- + Quick sensor exchange, causing brief disconnection only thanks to safety ball valve
- + Manual leakage stop, possible through application of the shut-off function in the measurement system (e.g. for shutdown or maintenance work) - automatic actuator available as an option
- + Multi sensor operation possible (multiple measuring point interfaces can be operated with a portable sensor unit)

## measuringSYSTEMS

### PRODUCTFINDER

#### Your industrial sector?

Food industry/ Chemical industry

#### What is to be measured?

Consumption Volume flow  
Quick-break Sensor exchange

### MEASURING POINT INTERFACE

#### Measuring armature

**Material:** stainless steel  
**Nominal pressure:** PN 16  
**Pipe connection:**  
ISO-female thread  
opt. welding neck flange

X

### SENSOR UNIT WITHOUT APPLICATOR

#### Direct-e

**Sensor:** e-flow  
measuring range 0,5 to 200m/s  
Temp. -20 to 80°C  
**Material probe:** stainless steel  
**Material applicator:** without

X

### MEDIUM

	compressed air	Nitrogen	CO <sub>2</sub>	Oxygen	Helium	Argon
	X	X	X	X	X	X

### NOMINAL WIDTH

	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	> DN 200
	X	X	X	X	X	X	X	X	X				



**POSTBERG + Co. GmbH**

**MEASURING**

## TECHNICAL DATA

### Measuring Point Interface

Stainless steel Safety ball-valve with PB+CO®lock-blind plug

### Sensor unit without applicator

Sensor e-flow with external display

Factory calibration and certificate (10-Punkt), ISO 50001 conform, certificate according to ISO/IEC 17025

Measuring range: 0,5 to 100 , 200 m/s on demand,

volume flow depending on nominal widths (see nominal widths datasheet)

Pressure resistance: 16 bar (optional 40 bar)

Display: External, 2-spaced with 6 digits

Response time  $t_{90}$ : < 1 sec.

Input delay: 0,5 sec.

Test port (analogue): apply voltage 0 - 10 V max. 1 mA; Power (3-conductor) 0 - 20 mA resp. 4 - 20 mA;  $R_L < 500 \text{ Ohm}$

Test port (impulse): potential free for compressed air consumption in 1 impulse =  $1 \text{ m}^3/10 \text{ m}^3$ , impulse length: 0,02 - 2 sec

Switching output: potential free max 44 VDC, 500 mA

Bus interface: M-BUS (incl.) or MODBUS RTU (optional); Profibus or TCP/IP as external Bus-Modul (optional)

Digital interface: USB (for configuration)

Optional pressure compensation: 4 - 20 mA (2-wired; 15 V) for pressure sensor

Supply voltage: 18 - 30 V AC/DC

Power consumption: max. 200 mA (incl. display)

Temperature range: Ambiente temperature -20...60 °C; Medium temperatur -20...80 °C; Storage temperatur -20...60 °C

Humidity of gas: noncondensing

Cable connection: Feedthrough M16x1,5 (optional plug M12x1 8pol.)

Electromagnetic compatibility: EN61326-1, EN61326-2-3, industry environment

### Material

Stainless steel (Safety ball-valve, Sensor pipe and probe), Metal (AlSi3Cu) (case), Glas (Sensor probe)

Protection type of case: IP65

We like to support you with your projects for a successful compressed air controlling system.  
Please visit us at [www.postberg.com/efficiencyconsulting](http://www.postberg.com/efficiencyconsulting).

