

# RO-Re

Article-No. 451223-1223-XXX



## YOUR BENEFIT CHARACTERISTICS

- + Easy determination of volume flow, temperature and pressure of gases
- + High-end sensor with stainless steel mechanics
- + Easy determination of compressed air consumption for main and distribution piping
- + Cost-effective pressurised installation with TÜV-tested tapping clamp, no welding work needed
- + Sensor exchange without disconnection, thanks to patented PB+Cover®-kickback protection
- + Suitable for steel pipes and stainless steel pipes
- + Multi sensor operation possible (multiple measuring point interfaces can be operated with a portable sensor unit)

## PRODUCTFINDER

### Your industrial sector?

Food industry/ Chemical industry

### What is to be measured?

consumption / volume flow measurement with 24/7 sensor exchange

## MEASURING POINT INTERFACE

### Tapping clamp

**Material:** Stainless steel, Perbunan  
**Normal pressure:** PN 16 (>DN200 PN10)  
**Pipe connection:** collar sealing

SUITABLE

## SENSOR UNIT WITHOUT APPLICATOR

### PB+Cover®-e

**Sensor:** e-flow  
 measuring range 0,5 to 200m/s  
 Temp. -20 to 80°C  
**Material probe:** stainless steel  
**Material applicator:** brass

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

## TECHNICAL DATA

### Measuring Point Interface (MPI)

Stainless steel pipe clamp with safety ball-valve and blind plug

### Sensor with 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 temperatur -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, Perbunan (pipe clamp), ceramic glas passivated, Makrolon, PEEK, Polyester, Viton (Sensor),

Brass (PB+Cover®)

Protection class case box: IP65 III

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).

