

# RO-Wi

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## YOUR BENEFIT CHARACTERISTICS

- + Easy determination of compressed air consumption for main and distribution piping
- + Cost-effective installation with TÜV-tested pipe clamp (no welding work necessary)
- + Quick sensor exchange without disconnection, thanks to patented changeover device
- + Suitable for steel pipes and stainless steel pipes
- + Inexpensive solution, in particular with large nominal widths

## PRODUCTFINDER

### Your industrial sector?

General industrial applications

### What is to be measured?

Consumption Volume flow  
24/7 sensor exchange

## MEASURING POINT INTERFACE

### Pipe clamp

**Material:** Stainless steel, Perbunan

**Normal pressure:** PN 16 (>DN200 PN10)

**Pipe connection:**  
collar sealing

X

## SENSOR UNIT WITH APPLICATOR

### WA322i

**Sensor:** i-flow

measuring range 0,5 to 160 m/s  
Temp. 0 to 60°C

**Material probe:** plastic

**Material applicator:** aluminium

X

## MEDIUM

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

## NORMINAL WIDTHS

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 Rohrschelle with PB+CO® lock-blind plug

### Sensor with applicator WA32

Sensor i-flow with integrated LED-display and changeover device WA322i as applicator

Factory calibration and certificate (5-point), ISO 50001 conform, certificate according to ISO/IEC 17025

Measuring range: 0,5 to 160 m/s, volume flow depending on nominal widths (see nominal widths datasheet)

Pressure resistance: 16 bar

Display: 4- digit alphanumeric display, 6mm high; display for l/ min or rather m<sup>3</sup>/ min or m<sup>3</sup>/ h

Totalisator (l or m<sup>3</sup>)

Response time  $t_{90}$ : 0,1 sec.

Input delay: 0,5 sec.

Supply voltage: DC 24 V (19 - 30 V), current consumption: <200 mA (with display)

Switching output: 2 Switching outputs/ 1 Switching output and 1 test port/ 2 test ports (normal set-up)

Bus-interface(optional): IO-Link (optional with sensor), M-BUS, MODBUS RTU, Profibus, TCP/IP as external Bus-Modules

Test ports (analogue): 4 - 20 mA, linear for instantaneous display for the whole measuring range

Test ports (impulse): Impulse port (no galvanic cutoff) for compressed air consumption in 1 impulse = 1 m<sup>3</sup>/ 10 m<sup>3</sup>

Impulse length 100 ms

Temperature range: Ambient temperature 0...60 °C; Medium temperature 0...60 °C; Storage temperature 0...60 °C

Humidity of gas: noncondensing

Short-circuit protection and reverse battery protection

### Material

Stainless steel, Perbunan (pipe clamp), ceramic glas passivated, Makrolon, PEEK, Polyester, Viton (Sensor),

Aluminium (retracting valve)

Protection class case box: IP65 III

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