



## KROHNE Vortex flowmeter Type: 8242 Series: Optiswirl 4200C

### Characteristics

**Series:** Optiswirl 4200C

**Type:** 8242

**Adjustable measuring range:** Yes

**Process connection:** Flange

**Pressure rating flange:** PN40

**Standard connection:** EN 1092-1

**Supply voltage:** 12 - 36V DC 2 wire

**Electrical connection:** Cable screw gland M20 x 1,5

**Degree of protection (IP) of evaluation electronic:**  
IP66/IP67

**Display:** Yes

**Material measuring tube:** Stainless steel 316L

**Process connection material:** Stainless steel 316L

**Material switch housing:** Aluminium

**Max. pressure:** 40 bar

**Medium temperature:** -40 / 240 °C

**Ambient temperature:** -40 / 85 °C

### Application

- Flow measurement of liquids, gases and vapours.
- Measurement of saturated steam.
- Steam boiler monitoring.
- SIP and CIP processes in food, beverage and pharmaceutical industries.
- Safety-related measurement in SIL applications.

### Technical Information

- Primary measured value number of separated vortices.
- Reference conditions water and air at 20 °C / 1.013 bar.
- Maximum measurement error of measured value at volume flow liquids:  $\pm 0.75\% \text{ Re} \geq 20000$ ;  $\pm 2.0\% \text{ } 10000 < \text{Re} < 20000$ .
- Maximum measurement error of measured value at volume flow gases and steam:  $\pm 1.0\% \text{ Re} \geq 20000$ ;  $\pm 2.0\% \text{ } 10000 < \text{Re} < 20000$ .
- Temperature compensation for saturated steam.
- According IEC 61508 classification SIL 2/3.

### Options

- Pressure compensation for gasses or superheated steam.
- Remote version with field housing converter.
- Compact sandwich version.

| Measuring range | Measuring unit | Size process connection | Output signal            | Article  |
|-----------------|----------------|-------------------------|--------------------------|----------|
| 2 / 70          | m/s            | DN25                    | 4 - 20 mA HART and pulse | 14530370 |
| 2 / 80          | m/s            | DN40                    | 4 - 20 mA HART and pulse | 14530497 |
| 2 / 80          | m/s            | DN50                    | 4 - 20 mA HART and pulse | 14530496 |

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