



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: $\pm 0.75 \% Re \geq 20000$; $\pm 2.0 \% 10000 < Re < 20000$.
- Maximum measurement error of measured value at volume flow gases and steam: $\pm 1.0 \% Re \geq 20000$; $\pm 2.0 \% 10000 < Re < 20000$.
- 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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