

## VSC42C

## Vacuum Transducer - Corrosive Gas Version Absolute Pressure 1400 to 1 mbar

The VSC42C piezo transducer is used for measuring absolute pressure in chemical process engineering and industrial applications.

The ceramic sensor and the glass fiber reinforced Teflon<sup>®</sup> hose connection ensures resistance to aggressive gases and chemicals.

Signal output:  
4 - 20 mA (two wire)



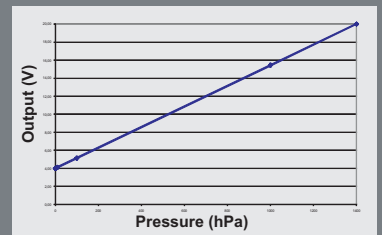
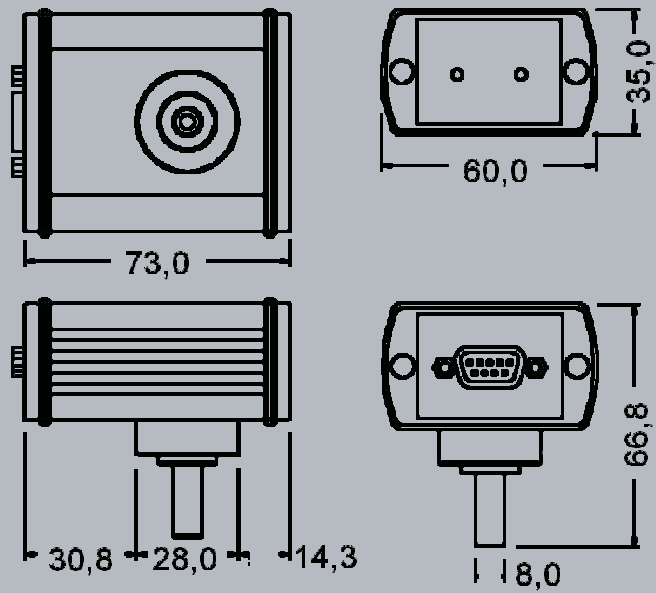
### Typical Applications

- Vacuum measuring in harsh environment
- Chemical process engineering
- Corrosive gas applications
- Plant construction
- Medical technology
- Laboratory

### Benefits

- Chemically resistant ceramic measuring cell with Kalrez<sup>®</sup> sealing and PTFE connection
- Suitable for aggressive media such as corrosive gases and solvent vapor
- High reliability and long term stability
- Short response time
- Temperature compensated
- Resistant to contamination
- Easy readjustment to atmospheric and zero pressure with trim pots
- Standard signal output 4 - 20 mA (two wire), linear
- Easy connection to PLCs and other system controllers
- Designed for tough industrial environments
- Robust metal housing with protection class IP54
- Vacuum connection over a 8 mm hose nozzle





$$I_{out} (V) = (p(\text{hPa}) / 87.5) + 4.0$$

$$p (\text{hPa}) = 87.5 (I_{out}(\text{mA}) - 4.0)$$

## Technical Data

Measuring Principle	Piezo resistive, independent of gas type
Materials In Contact With Vacuum	Al <sub>2</sub> O <sub>3</sub> ceramic, PTFE, Kalrez®
Measurement Range	1400 - 1 mbar (1050 - 1 Torr), max. overpressure 4 bar absolute
Accuracy	± 0,4 % full scale
Response Time	10 ms
Power Supply	9 - 30 VDC
Electrical Connection	SubD, 9-pole, female, lockable
Power Consumption	Max. 30 mA
Operating Temperature	+5...+50°C
Storage Temperature	-20...+70°C
Output Signal	4 - 20 mA, two wire (linear, 20 mA / 1400 mbar) max. loop resistance: $R_L = (\text{supply voltage} - 9 \text{ V}) / 20 \text{ mA}$
Vacuum Connection	Hose nozzle PTFE, 8 mm
Protection Class	IP54
Weight	Approx. 160 g

## Product Codes

### • VSC42CA4

Piezo transducer 1400 - 1 mbar with PTFE hose nozzle, output 4 - 20 mA (two wire)

### Accessories:

#### • W0900002

Measuring cable, shielded, 2 m (for VD6 / VD9)

#### • W0900006

Measuring cable, shielded, 6 m (for VD6 / VD9)