

## ZS 2 ( 0 - 1000 mbar )

### Parameter

### ZS2

#### Special

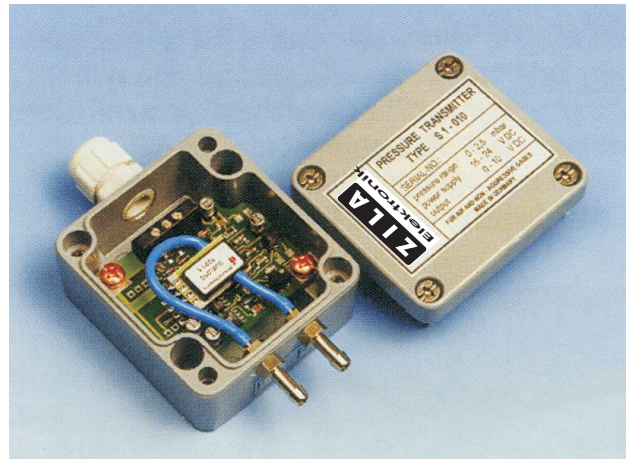
- output:                   ZS2-010        0-10V  
                              ZS2-420        4-20mA
- supply voltage:        24VDC  
  optional                24VAC or 230VAC
- pressure range         0 -1000 mbar  
                              Look at rear page

#### Advantage

For applications with higher pressure ranges we offer additionally to ZS1 the type ZS2. The ZS2 measures difference- pressure, positive and negative overpressure or optionally velocity of flow. The analog output signals are 0-10 V or 4-20 mA. Because of the piezo-resistive cell the transmitter reach a high reliability and precision. The dependence of zero signal from mounting position is very small. The resistance against overpressure is higher than by using other physical principles. They are housed in a robust aluminium package. Optionally electronic damping of output signal is possible. Transmitter ZS2-010 can completed for power supply 24 VAC or 230 VAC.

#### Operating conditions

- storage temperature:   -30 to +60°C
- operating temperature: -20 to +50°C
- EMV and ESD acc. to:   EN 50082-1 and  
                              EN 50082-2



### Application

- control of airblowers
- supervision of airfilters
- mechanical- and system engineering
- environmental technology
- liquid level control
- pressure control and regulation for instance in pressure chambers
- medical engineering

## INFORMATION

## Technical Data

### technical data ZS2-010 und ZS2-420 (difference pressure)

pressure-range (mbar)	pressure-range (kPa)	max. over-pressuret (mbar)	max.- linear error (±% FS)	max. temp. error (±% FS) 0-50°C	lang-term-stability (%FS/year)	repeat-precision (% FS)	response-time (ms)
0 - 2,5	0 - 0,25	250	1	3,5	2	0,3	50
0 - 5	0 - 0,5	250	1	2,5	2	0,3	50
0 - 10	0 - 1	350	1	1	0,5	0,2	50
0 - 25	0 - 2,5	350	0,8	1	0,5	0,1	50
0 - 50	0 - 5	350	0,8	1	0,5	0,1	50
0 -100	0 - 10	350	0,8	1	0,5	0,1	50
0 - 250	0 - 25	3-x	0,5	1	0,1	0,1	50
0 - 500	0 - 50	3-x	0,5	1	0,1	0,1	50
0 - 1000	0 - 100	3-x	0,5	1	0,1	0,1	50

**Temperature range:** -20 bis +50 °C

**Hysteresis:** 0.1%

**Medium:** air, and all non aggressive gases

<b>Output conditions</b>	ZS2-010	0...10 V	$R_L \geq 2 \text{ k}\Omega$ ,	15-30 V DC
	ZS2-420	4...20 mA	$R_B \dots 20 \dots 400 \Omega$ ,	10-30 V DC

**connector:** electrical: screwpins for 0.14-1.5 mm<sup>2</sup>  
 air: 2 connector for tubes with 4 or 6mm-Ø  
 cable: PG7

**Pinout** **ZS2 - 010:**  
 1: +24 V DC  
 2: Output 0 - 10 V  
 3: GND

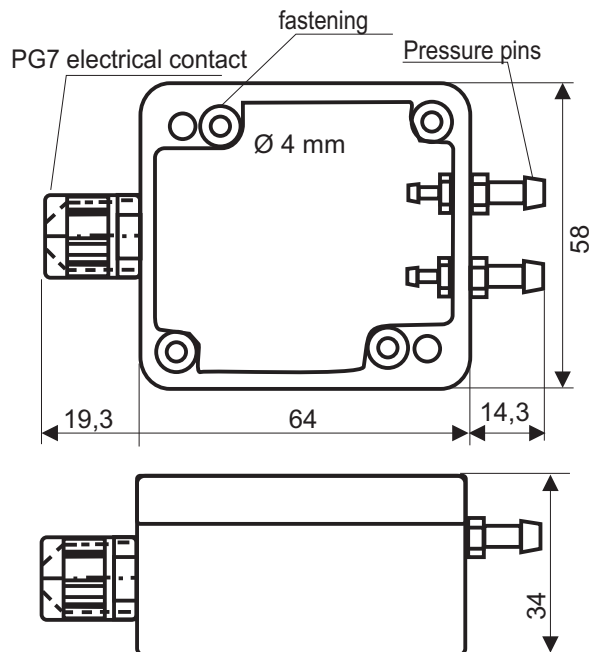
**ZS2 - 420:**  
 1: +24 V DC\*  
 2: Output 4...20 mA\*

**weight** about 170 g

**Protection mode:** IP65

**Order code:**

ZS2-010 or ZS2-420: 0...2,5 to 0...1000 mbar



Technical changes possible