

# Ultra Low pressure gauge

## Model : P423 series

Spec. sheet no. PD04-04

### Service intended

P423 series are designed to measure ultra low, vacuum or compound pressure.  
These models have a stainless steel measuring element which consists of two formed diaphragms and diaphragms are welded together.

### Nominal diameter

100 mm

### Accuracy

±1.6 % of full scale

### Scale range (kPa, mbar)

-1 ~ 0 to -0.2 ~ 0 kPa

-0.1 ~ 0.1 to -0.5 ~ 0.5 kPa

0 ~ 0.2 to 0 ~ 1 kPa

### Working pressure

Steady : 75 % of full scale

Over range protection : 130% of full scale

### Working temperature

Ambient : -20 ~ 65 °C

Fluid : Max. 100 °C

### Temperature effect

Accuracy at temperature above and below the reference temperature (20 °C) will be effected by approximately ±0.6 % per 10 °C of full scale



## Standard features

### Pressure connection

Stainless steel (316SS)

### Movement

Brass

### Element

Stainless steel (316L SS)

Pressure chamber : Up to 1 kPa

### Dial

White aluminium with black graduations

### Case

Stainless steel (304SS)

### Pointer

Black painted aluminium alloy

### Cover

Stainless steel (304SS)

### Process connection

1/4", 3/8", 1/2" PT, NPT and PF

### Window

Safety glass

### Option

Internal zero adjustment

**WISE**<sup>®</sup>

**1. Base model****P423** Ultra Low pressure gauge**2. Nominal diameter (mm)****4** 100**3. Type of mounting**

- A** Bottom connection, direct  
**B** Bottom connection, surface, case mounting plate

**4. Accuracy****4** ±1.6 % of full scale**5. Process connection**

- C** 1/4"  
**D** 3/8"  
**E** 1/2"

**6. Connection type**

- B** PF  
**C** PT  
**D** NPT  
**Z** Other

**7. Unit**

- J** kPa  
**S** mbar

**8. Range****XXX** Refer to pressure unit and range table**9. Pressure connection material and dial color**

- 3** 316SS and 2 colors  
**4** 316L SS and 2 colors  
**7** 316SS and 3 colors  
**8** 316L SS and 3 colors

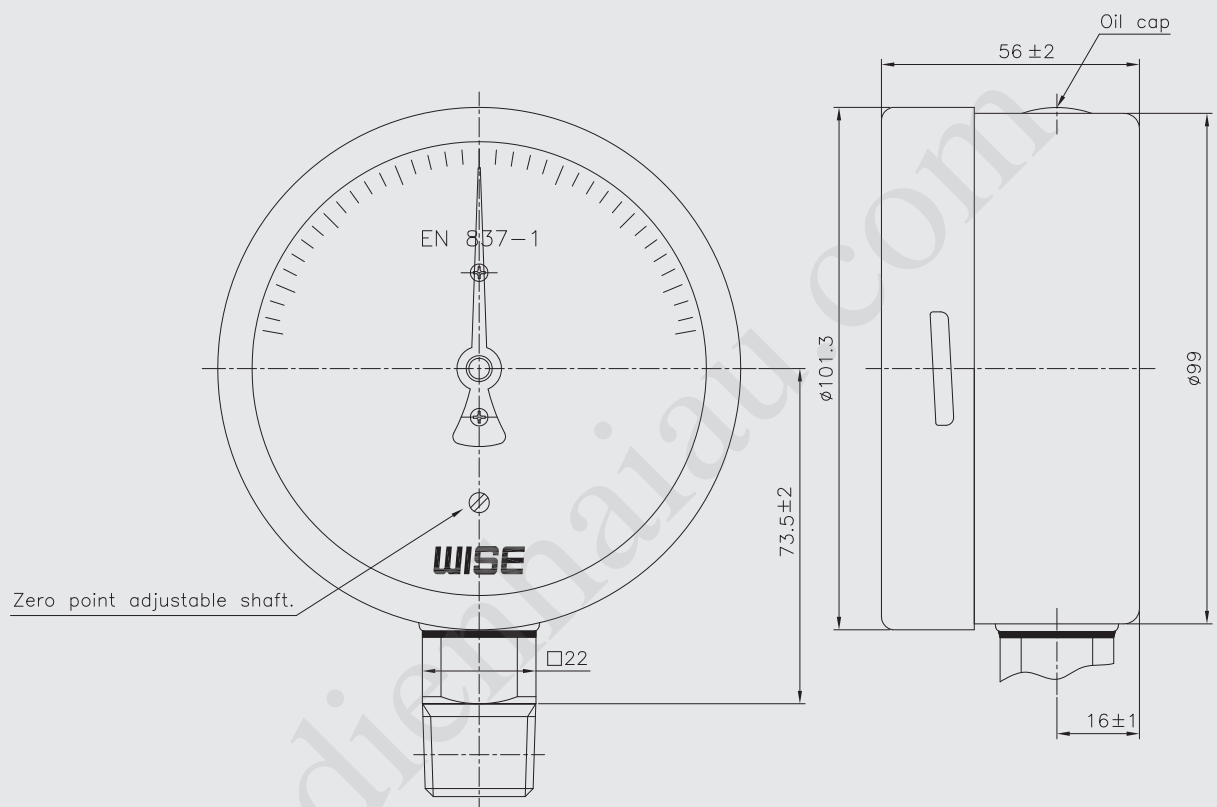
**10. Option**

- 0** None  
**1** Accessories

**Sample ordering code**

1	2	3	4	5	6	7	8	9	10
<b>P423</b>	<b>4</b>	<b>A</b>	<b>4</b>	<b>E</b>	<b>D</b>	<b>J</b>	<b>XXX</b>	<b>3</b>	<b>0</b>

## P423 : Type of mounting



## Pressure unit and range table

Range and code	Unit and code	
	S : mbar	J : kPa
409	-10 ~ 0	-1 ~ 0
429	-4 ~ 0	-0.4 ~ 0
427	-2 ~ 0	-0.2 ~ 0
422	-5 ~ 5	-0.5 ~ 0.5
423	-3 ~ 3	-0.3 ~ 0.3
424	-2 ~ 2	-0.2 ~ 0.2
425	-1 ~ 1	-0.1 ~ 0.1
449	0 ~ 2	0 ~ 0.2
451	0 ~ 4	0 ~ 0.4
453	0 ~ 6	0 ~ 0.6
457	0 ~ 10	0 ~ 1