# Differential pressure gauge with capsule element Model 716.11, measuring system copper alloy Model 736.11, measuring system stainless steel

WIKA data sheet PM 07.07





for further approvals see page 2

# **Applications**

- Differential pressure measurement at measuring points with very low differential pressures, for gaseous, dry, clean, oil and grease free media
- Model 736.11 also for aggressive media and environment
- Filter monitoring in ventilation and heating systems
- Filter monitoring in overpressure and clean rooms
- Differential pressure controlled monitoring of ventilator and blast pressures

# **Special features**

- Differential pressure measuring ranges from 0 ... 2.5 mbar
- As a standard zero adjustment in front
- Ingress protection IP 66
- Case from stainless steel



Differential pressure gauge model 716.11

# **Description**

### Design

For very low differential pressures, DT - GM 87 10 226

### Nominal size in mm

Model 716.11: NS 63, 100, 160 Model 736.11: NS 100, 160

# **Accuracy class**

1.6

### Scale ranges

Model 716.11: NS 63: 0 ... 16 to 0 ... 400 mbar

NS 100: 0 ... 10 to 0 ... 250 mbar NS 160: 0 ... 6 to 0 ... 250 mbar

Model 736.11: NS 100: 0 ... 16 to 0 ... 250 mbar

NS 160: 0 ... 2.5 to 0 ... 250 mbar

or all other equivalent vacuum or combined pressure and vacuum ranges

### **Pressure limitation**

Steady: Full scale value
Fluctuating: 0.9 x full scale value

### Overpressure safety

Full scale value

### Max. working pressure (static pressure)

NS 63: 400 mbar NS 100, 160: 250 mbar

# Permissible temperature

Ambient: -20 ... +60 °C Medium: +70 °C maximum

# Temperature effect

When the temperature of the measuring system deviates from the reference temperature (+20 °C):

max. ±0.5 %/10 K of full scale value

# Ingress protection

IP 66 per EN 60529 / IEC 60529

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# Design and operating principle

- Pressure retaining case with capsule measuring element,
   ⊕ pressure is retained in capsule element
   ⊖ pressure is retained in case
- $\blacksquare$  Pressure differential between  $\oplus$  and  $\ominus$  side deflects the capsule element
- The deflection is transmitted to the movement and indicated

Mounting according to affixed symbols, ⊕ high pressure and ⊖ low pressure

# Mounting by means of:

- Rigid measuring lines
- Panel or surface mounting flange (option)
- Mounting bracket for wall or pipe mounting (option)

### Standard version

### **Process connection (wetted)**

Model 716.11: Copper alloy Model 736.11: Stainless steel

Lower mount (LM), parallel one behind the other NS 63:  $2 \times G \% B$  (male), 14 mm flats NS 100, 160:  $2 \times G \% B$  (male), 22 mm flats

### Pressure element (wetted)

Model 716.11: Copper alloy Model 736.11: Stainless steel

### Movement (wetted)

Model 716.11: Copper alloy Model 736.11: Stainless steel

### Dial (wetted)

Aluminium, white, black lettering

### Pointer (wetted)

Aluminium, black

# Zero adjustment (wetted)

Adjusting device for screwdriver in front

# Case (wetted)

Stainless steel, pressure retaining, NS 100, 160: With blow-out device PUR

### Window (wetted)

Clear non-splintering plastic

### Sealings (wetted)

NBR, silicone

### **Bezel ring**

Cam ring (bayonet type), stainless steel

# **Options**

- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Panel or surface mounting flange
- Mounting bracket for wall or pipe mounting (data sheet AC 09.07)
- Pressure compensating valve (data sheet AC 09.11) wetted
- Back mount (BM)
- Overpressure safety
   Side with scale ranges

 $0 \dots 2.5$  mbar to  $0 \dots 25$  mbar:  $3 \times 1$  full scale value  $\ge 0 \dots 40$  mbar: To maximum working pressure

⊖ side: On request

# **Approvals**

- GOST, metrology/measurement technology, Russia
- GOST-R, import certificate, Russia
- CRN, safety (e.g. electr. safety, overpressure, ...), Canada

### Certificates 1)

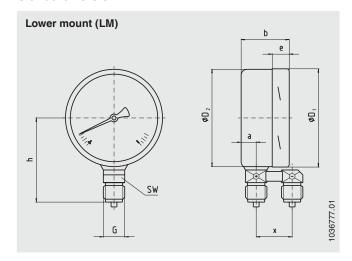
- 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. indication accuracy)

1) Option

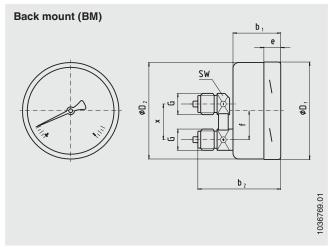
Approvals and certificates, see website

# **Dimensions in mm**

### Standard version



# Option



NS	S Dimensions in mm												Weight
	а	b	b <sub>1</sub>	b <sub>2</sub>	D1	$D_2$	е	f	G	h ±1	Χ	SW	in kg
63	11	48.5	38	55	64	62	13.5	20	2 x G 1/8 B 1)	49	23	14	0.23
100	15.5	48.5	49.5	84	101	99	17.5	30	2 x G ½ B	87	37	22	0.73
160	15.5	48.5	51.5	87	161	159	17.5	50	2 x G ½ B	118	37	22	1.33

Process connection per EN 837-3 / 7.3

1) Without spigot

# **Ordering information**

Model / Nominal size / Scale range / Max. working pressure (static pressure) ... mbar / Connection size / Connection location / Options

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