# Duplex pressure gauge per DIN 38030 Panel mounting series for rail-vehicle braking systems Model PG21DPB, NS 60, 80, 100 and 130

WIKA data sheet PM 02.16

## **Applications**

- Pneumatic braking systems for rail vehicles and commercial vehicles
- Pressure measurement for brake cylinders and pressure vessels

## **Special features**

- Two process connections and two independent pointers
- Case from stainless steel
- Accuracy class 1.0 and 1.6 (NS 60)
- Scale ranges from 0 ... 6 bar to 0 ... 16 bar
- Overload safety to 1.3 x full scale value



Fig. left: Model PG21DPB, NS 60 Fig. right: Model PG21DPB, NS 100

## Description

The model PG21DPB Bourdon tube pressure gauge is used in rail vehicles, buses and heavy goods vehicles with compressed-air brakes. The instrument is based on two independently operating Bourdon tube measuring systems and is therefore able to show the pressure from two measuring points on one display.

The stainless steel case and the measuring system from a special copper alloy are the basis for very good measuring properties. The instrument is designed for high load-cycling conditions and a good resistance to environmental influences.

On all models, the dials are illuminated, glare-free, by a special light guide. The illumination of the dial is possible, indirectly, via light slots in the case and, directly, via a filament bulb or LED with BA9s bulb fitting.

The model PG21DPB is also available in customer-specific versions, e.g. with individual dial layout.



## **Specifications**

### Design

DIN 38030

#### Nominal size in mm

60, 80, 100 and 130

## **Accuracy class**

1.0 (NS 80, 100, 130)

1.6 (NS 60)

#### Scale ranges

NS 60, 80, 100: 0 ... 6 bar, 0 ... 10 bar, 0 ... 12 bar, 0 ... 16 bar

NS 130: 0... 12 bar

#### **Pressure limitation**

NS 80, 100, 130:

Fluctuating: Full scale value
Short time: 1.3 x full scale value

NS 130:

Fluctuating: 0.75 x full scale value Short time: Full scale value

#### Permissible temperature

Ambient: -25 ... +80 °C Medium: -20 ... +60 °C

### **Temperature effect**

When the temperature of the measuring system deviates from the reference temperature (+20 °C): max.  $\pm 0.3$  %/10 K of the span

## Ingress protection per IEC/EN 60529

IP43

### **Process connection**

Copper alloy, centre back mount, with restrictor  $\varnothing$  1<sup>-0.2</sup> mm NS 60: M12 x 1.5 R6 24°K

NS 80, 100, 130: M16 x 1.5 R10 24°K

#### Pressure element

Copper alloy

## Movement

Copper alloy

### Dial

Aluminium, black

Scale and lettering, white

### **Pointer**

Aluminium

1 pointer at the top, red and 1 pointer at the bottom, yellow (RAL colours per DIN 38030)

#### Case

NS 60, 80, 100: Stainless steel 1.4301

NS 130: Steel, black

### Illumination

Indirect: Light slots

Direct: Light bulb, 3 W (NS 60: 2 W), DC 24 V,

BA9s lamp holder

#### Window

NS 60, 80, 100: Laminated safety glass, reduced light

reflections

NS 130: Instrument glass

## Panel fitting

NS 60, 80, 100: Single-piece mounting bracket,

galvanised steel

Triangular bezel, aluminium, black

NS 130: 2 surface mounting lugs, galvanised steel

BB - Slip-on bezel light slots, Aluminium,

black

## **Options**

- Other process connection
- Restrictor Ø: 0.3 mm or 0.6 mm
- Window: PMMA
- Triangular bezel, polished stainless steel
- Dial: Aluminium, white, dual scale
- Higher luminosity with LED
- Other pointers

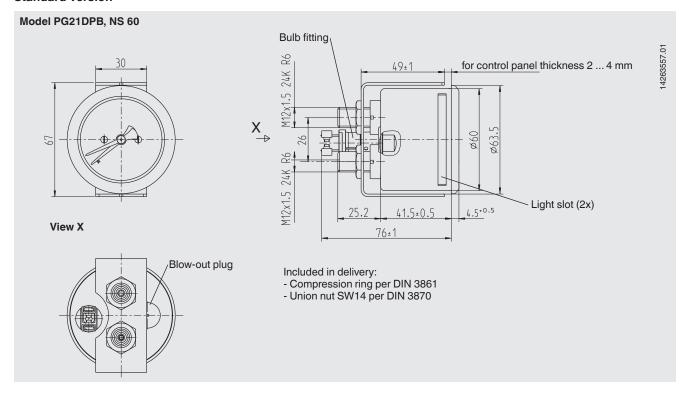
# **Certificates (option)**

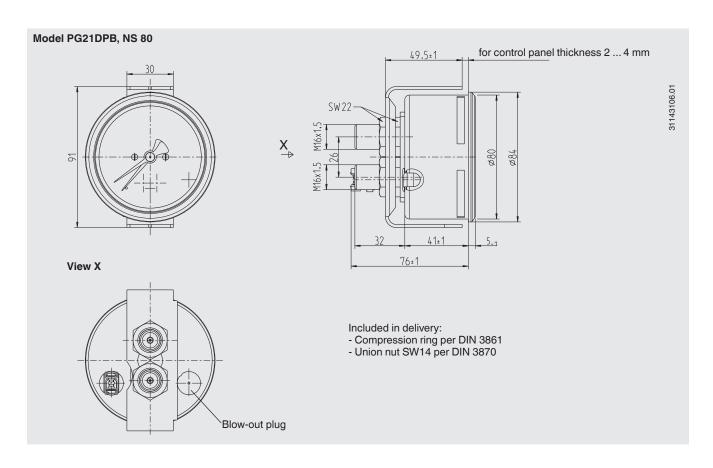
- 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. indication accuracy)

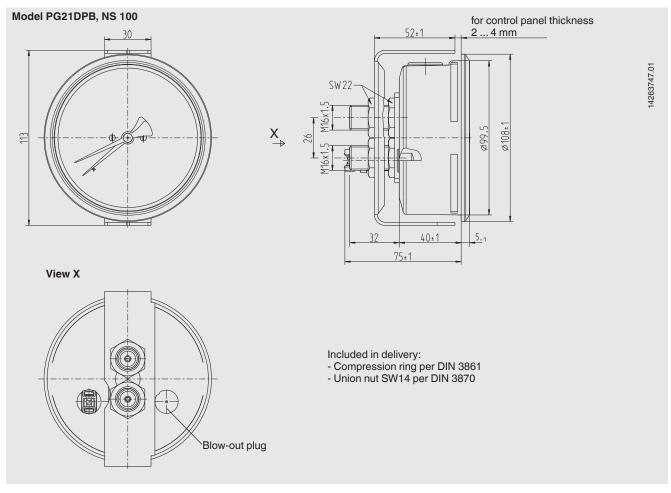
Approvals and certificates, see website

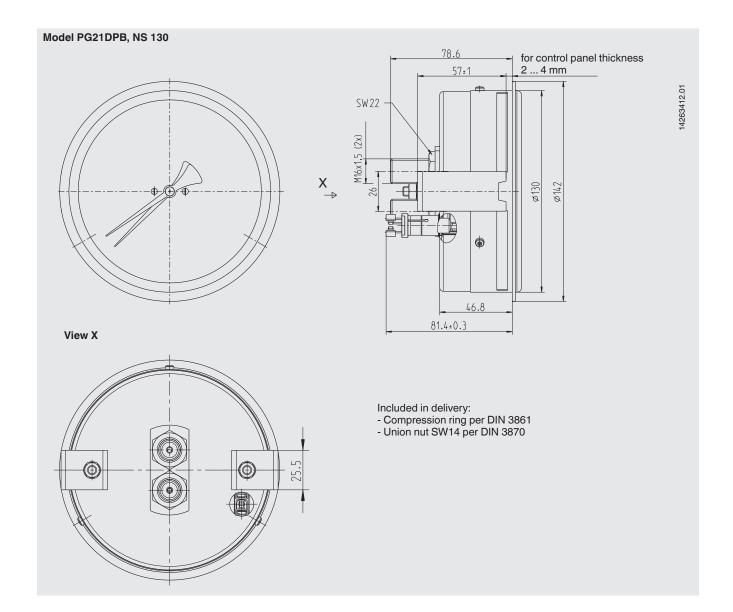
## **Dimensions in mm**

## Standard version









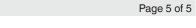
## **Ordering information**

Model / Scale range / Process connection / Options

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The specifications given in this document represent the state of engineering at the time of publishing. We reserve the right to make modifications to the specifications and materials.

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