Automation for a Changing World

Delta Multifunction Pressure Sensor

DPB Series

www.deltaww.com

DELTA

Smarter. Greener. Together.

Multifunction Pressure Sensor DPB Series

- **Various unit conversion**
- **Various output modes**
- **3 sets of color display**
- **10 sets of output response time setup**
- **Fast zero reset**
- **Safety control function**
- **Easy code display**

Various Unit Conversion

The DPB Series offers 6 kinds of globally adopted pressure units for measurement and display.

3-Color LCD Display (Green, Red, Orange)

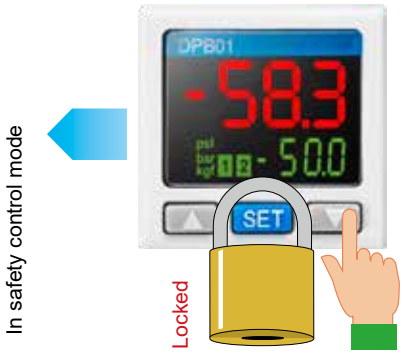
The large LCD with a green, red and orange 3-color LCD display allows users to set the display color according to the ambient environment, such as when the pressure is within normal range or exceeds the allowed range. The display's color is orange when in parameter setup mode. This makes it easy for reading and reduces operation errors.

Color for upper / lower limit display (green / red)

Parameter set up (orange)

Safety Control Mode

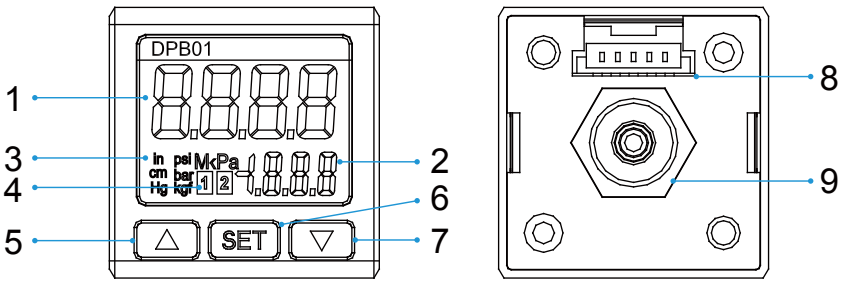
The safety control mode prevents operators from carelessly touching relevant parameters and affecting the operation and production of the equipment.



Specifications

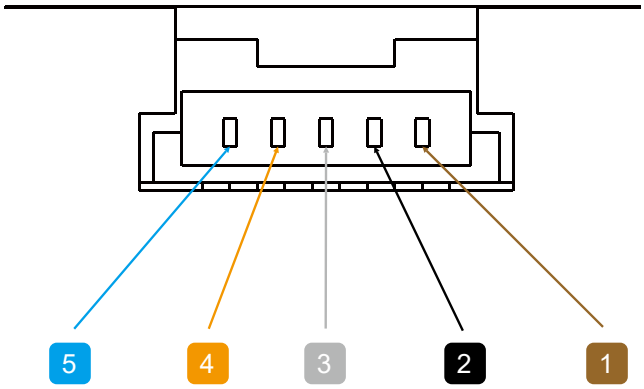
Power Supply	Voltage range	12 ~ 24 V_{DC} ± 10% no isolation
	Power consumption	40 mA Max.
Pressure Measurement	Pressure type	Non-corrosive gas, gauge type
	Measurable range	DPB01: -100 kPa ~ 100 kPa; DPB10: -100 kPa ~ 1,000 kPa
	Max. durable pressure	DPB01: 200 kPa; DPB10: 1,500 kPa
	Accuracy	± 3% entire process
Display	Setup display	2-line LCD display, 4 digits for measured value and 3.5 digits for setup display
	Cycle	100ms, 250ms, 500ms, 1,000ms
Output	Number of outputs	Built-in 2 NPN or PNP transistor digital outputs
	Transistor output	Max. durable pressure 30V / 100mA, residual voltage 1.5V
	Response time	2ms, 4ms, 10ms, 30ms, 50ms, 100ms, 250ms, 500ms, 1,000ms, 5,000ms
Temperature		Ambient: 0°C ~ +50°C; Storage: -20°C ~ +65°C
Ambient humidity		35% ~ 80% RH (non-condensing)

Product Profile & Outline



1. Pressure / parameter display
2. SV / setup item display
3. Pressure unit display
4. Digital output 1 & 2 indicator
5. UP key
6. SET key
7. DOWN key
8. Power supply and output terminals
9. Pressure input pore

Terminals



1 Positive power supply input (Brown)

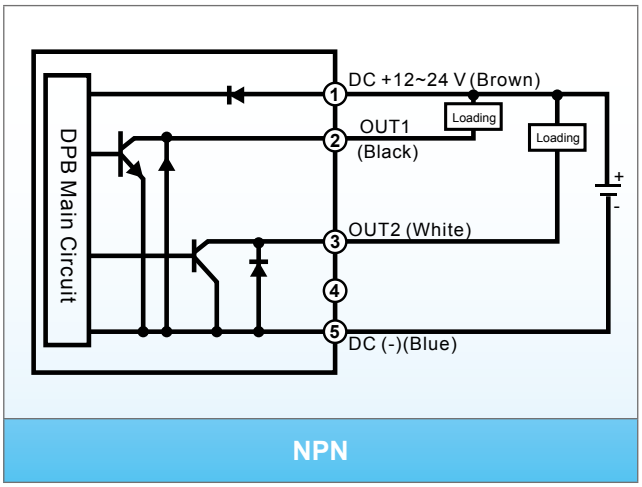
2 Digital output 1 signal (Black)

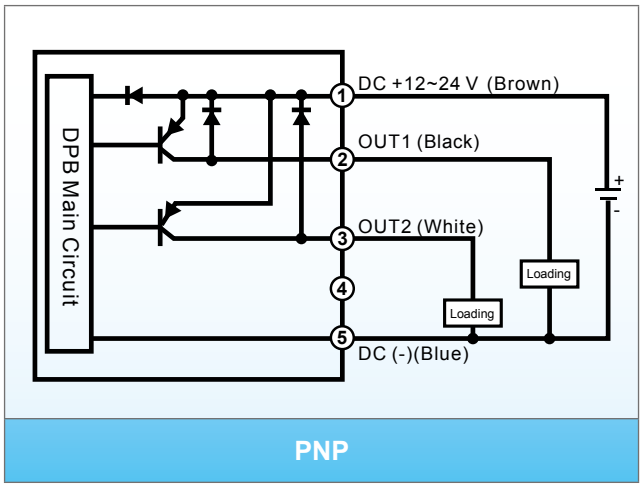
3 Digital output 2 signal (White)

4 No function (Orange)

5 Negative power supply input (Blue)

Various Output Control Modes





Ordering Information

DPB | 0 | 1 | N | - | P

Product Name
DPB Series pressure sensor

Range for Pressure Measurement
- 01 -100 kPa ~ 100 kPa
- 10 -100 kPa ~ 1,000 kPa

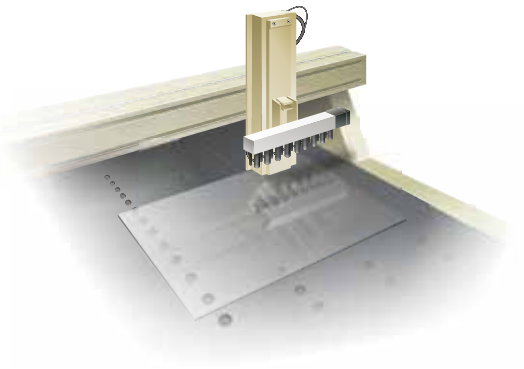
Output Type
- N NPN output
- P PNP output

Pressure Pore Type
- P Outer pore 1/8 PT, inner pore M5
- N Outer pore 1/8 NPT, inner pore M5
- G Outer pore 1/8 G, inner pore M5

Applications

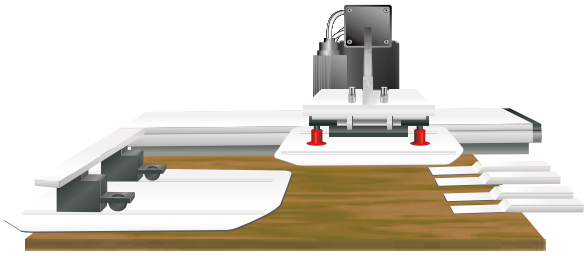
Mechanical Processing Industry

Mechanical product processing and fixing



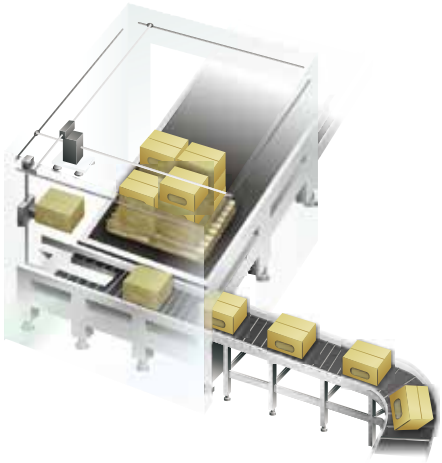
Solar Energy Industry

Turnkey module lines suction



Food Packaging Industry

Drinks, cans suction and packaging

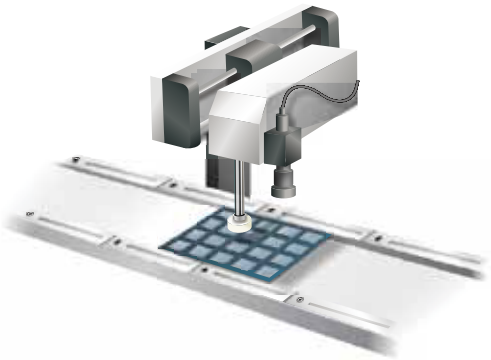


Semiconductor Industry

Wafer suction and loading

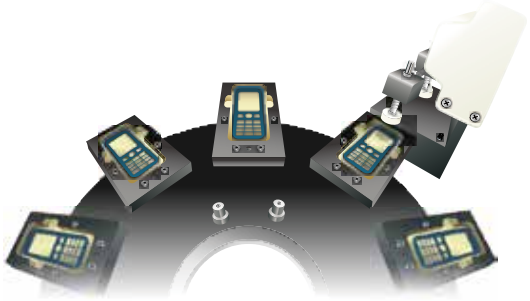
Electronic Components Industry

IC component suction and confirmation

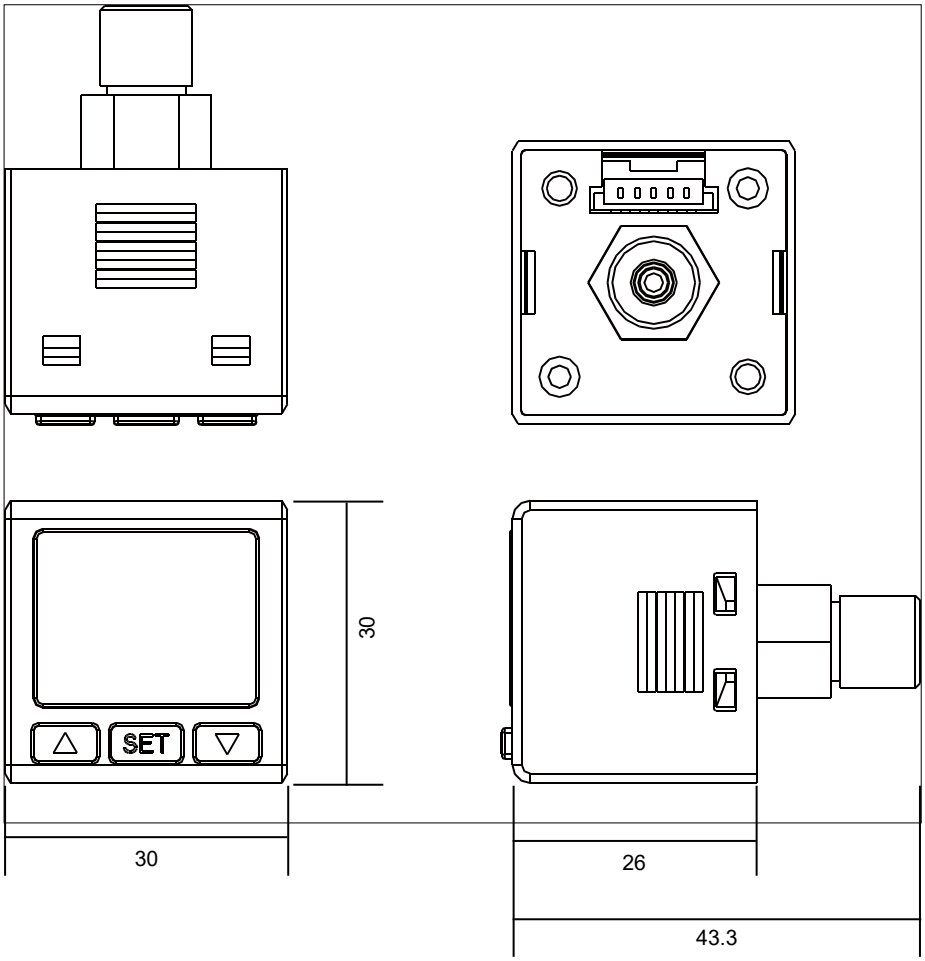


Automatic Assembly Industry

Automation component assembly and confirmation

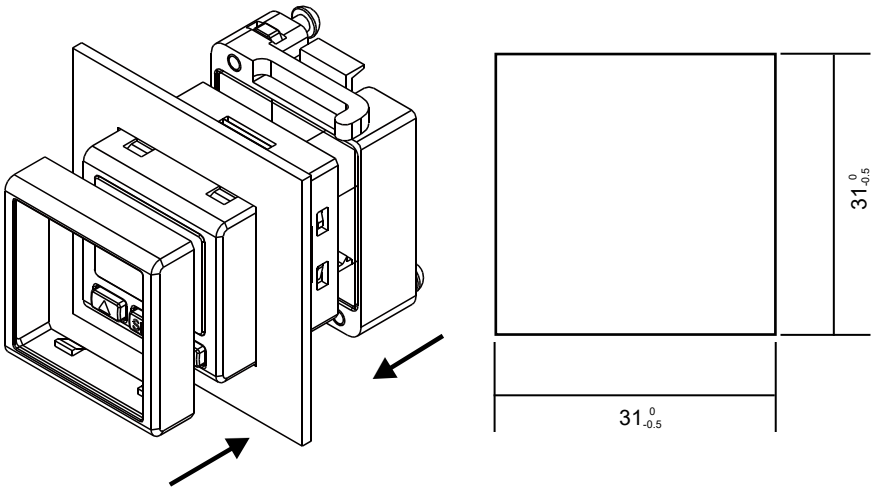


Dimensions (DPA / DPB) Unit : mm



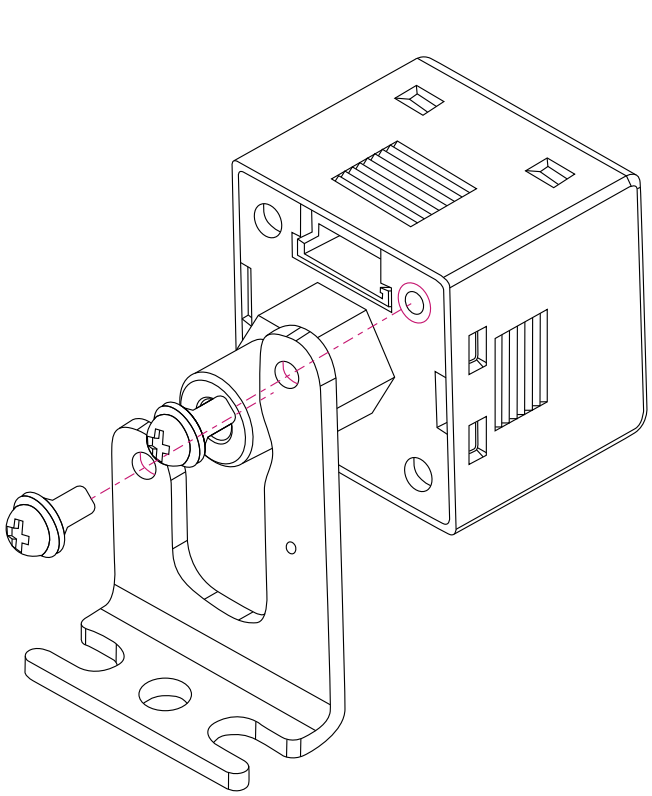
Panel Accessory (DPA / DPB) Unit : mm

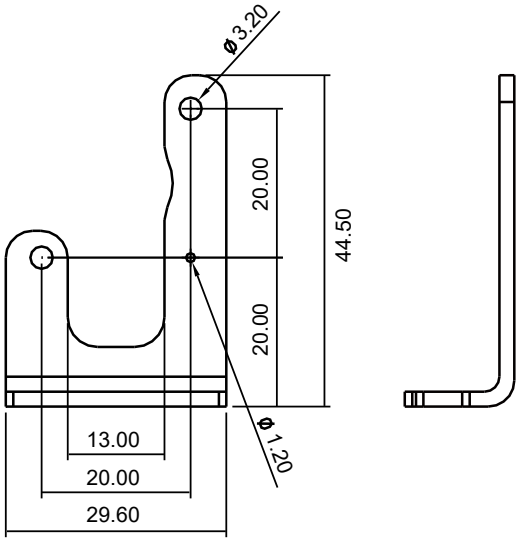
Model: DPA-PFKit

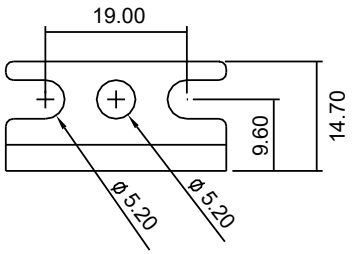


Shelf Accessory (DPA / DPB) Unit : mm

Model: DPA-FMKit

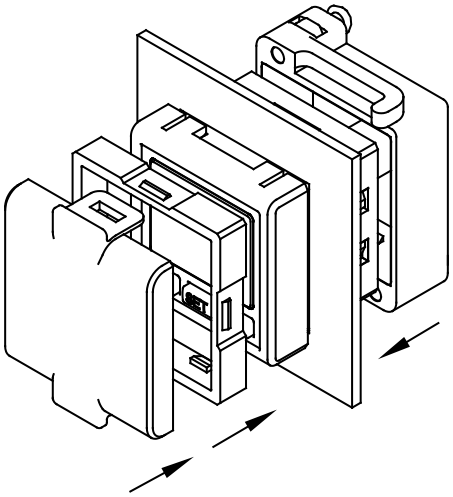


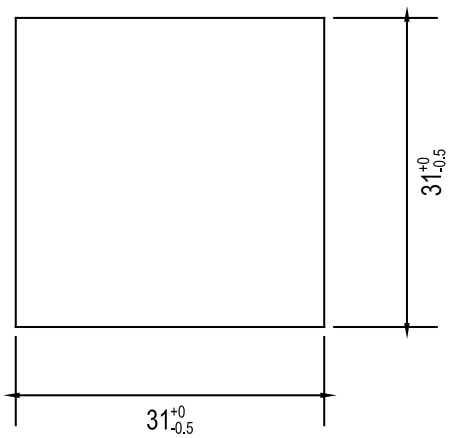




Transparent Protective Cover (DPA /DPB) Unit : mm

Model: DPA-FPCKIT





Polígono Industrial A Reigosa Parcela B-33

36828 Ponte Caldelas

Pontevedra - España

Telf. (+34) 986 872 010

E-mail: egasen@egasen.com

Web: www.egasen.com