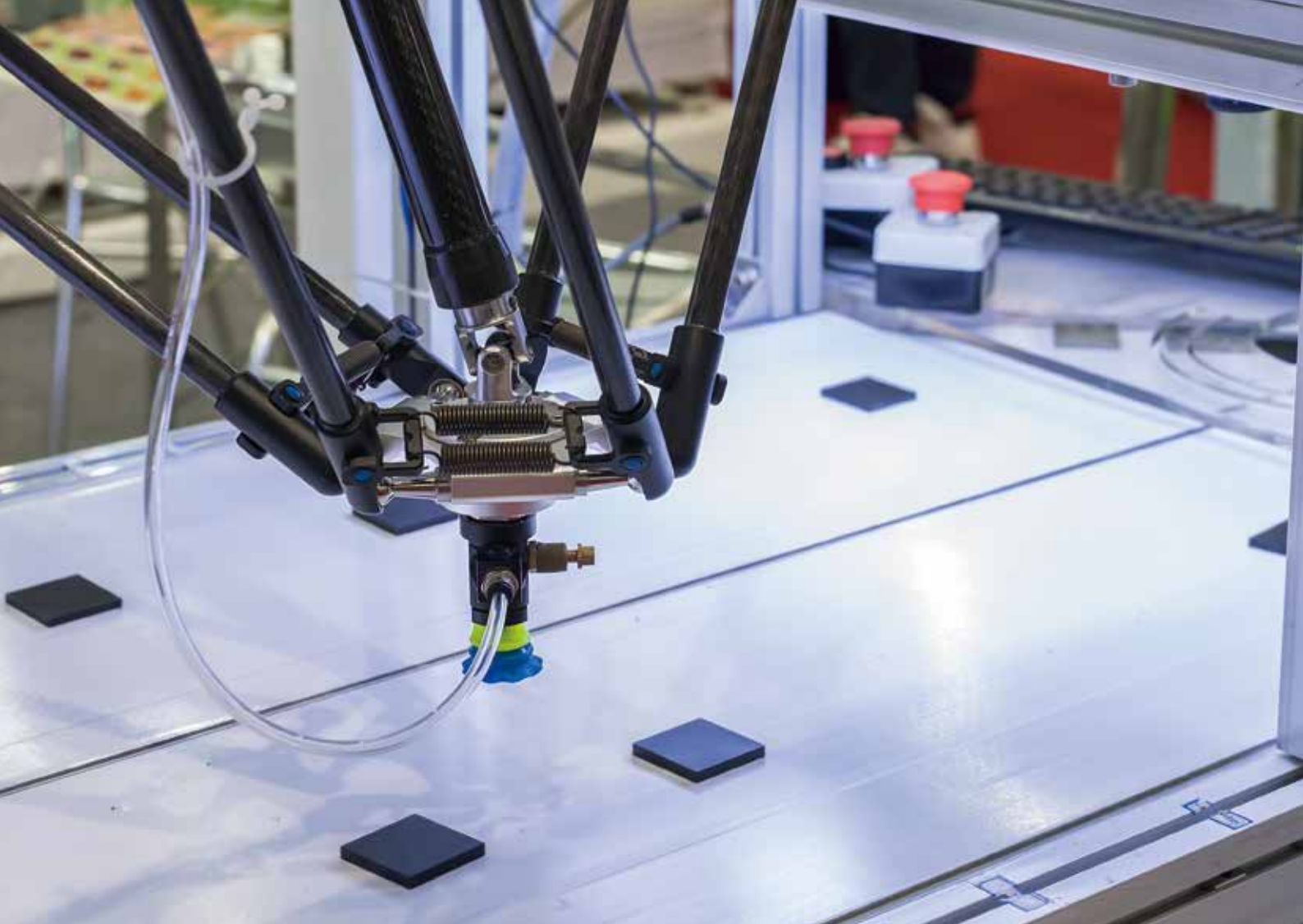




Automation for a Changing World

Delta Multifunction Pressure Sensor DPA Series



www.deltaww.com

 **DELTA**
Smarter. Greener. Together.

Multifunction Pressure Sensor DPA Series

- ▶ Energy-saving mode
- ▶ Various unit conversion
- ▶ Analog output function
- ▶ Various output modes
- ▶ 10 sets of output response time setup
- ▶ 3 sets of color display
- ▶ Fast zero reset
- ▶ Safety control function
- ▶ Easy code display
- ▶ Parameter copy function



Various Unit Conversion

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



Fast Parameter Copy

The DPA Series fast copies the internal parameters to other slaves and saves repeated parameter setup time.



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.

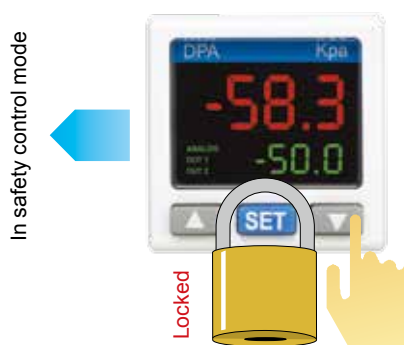


Color for upper / lower limit display (green / red)

Parameter set up (orange)

Safety Control Mode

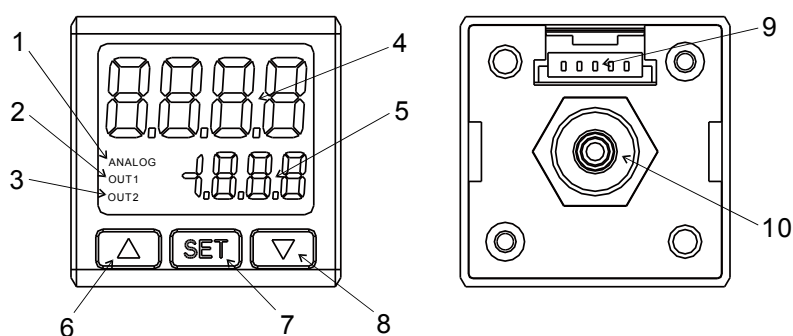
The safety control mode prevents operators from carelessly touching relevant parameters and affecting the operation and production of the equipment.



Specifications

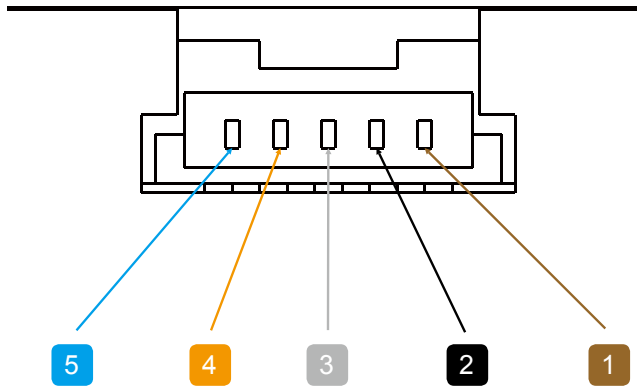
Power Supply	Voltage range	12 ~ 24 V _{DC} ± 10% no isolation
	Power consumption	40 mA Max.; current output type 60 mA Max.
Pressure Measurement	Pressure type	Non-corrosive gas, gauge type
	Measurable range	DPA01: -100 kPa ~ 100 kPa DPA10: -100 kPa ~ 1,000 kPa
	Max. durable pressure	DPA01: 200 kPa DPA10: 1,500 kPa
	Measurement accuracy	± 3% entire process
	Temperature inaccuracy	± 2% entire process
Display	Setup display	2-line LCD display, 4 digits for measured value and 3.5 digits for setup display
	Status display	LCD output status display
	Display mode	3 colors for different modes
	Cycle	250 ms, 500 ms, 1,000 ms
Output	Number of outputs	Built-in 2 NPN or PNP transistor digital outputs and 1 analog output
	Transistor output	NPN: Max. durable pressure 30V / 100 mA, residual voltage 1.5V PNP: Max. durable pressure 30V / 100 mA, residual voltage 1.5V
	Analog output	1 ~ 5V: Min. output load resistance 1,000 Ω 4 ~ 20 mA: Max. output load resistance 400 Ω; linear inaccuracy < 2% entire process
	Response time	2 ms, 4 ms, 10 ms, 30 ms, 50 ms, 100 ms, 250 ms, 500 ms, 1,000 ms, 5,000 ms
	Output inaccuracy	Linear inaccuracy: < ± 2% entire process
Pore Size	P	Outer diameter PT1/8, inner diameter M5
	N	Outer diameter NPT1/8, inner diameter M5
	R	Outer diameter Rc1/8, inner diameter M5
Shock Resistance		10 ~ 550 Hz, 100 mm, 3 axes for 2 hours
Vibration Resistance		Max. 100 m/s ² , 3 axes 6 directions, 3 times each
Operating Ambient Temperature		0°C ~ +50°C
Storage Temperature		-20°C ~ +65°C
Altitude		< 2,000 m
Operating Relative Humidity		35% ~ 80% RH (non-condensing)

Product Profile & Outline



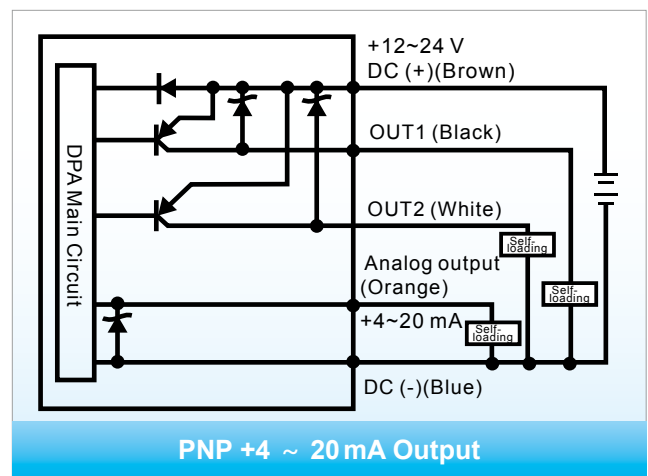
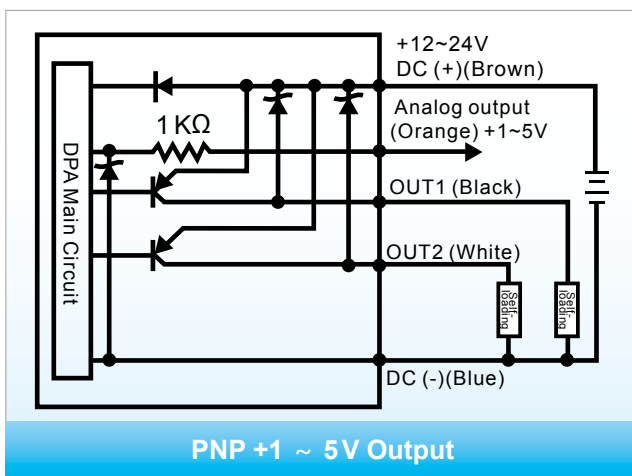
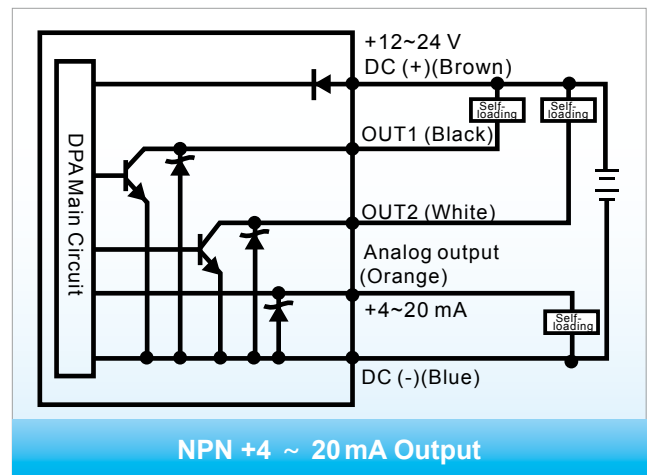
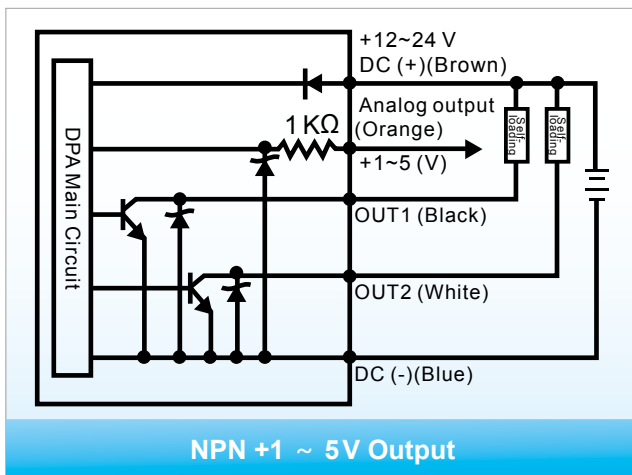
- 1 Analog output indicator
- 2 Digital output 1 indicator
- 3 Digital output 2 indicator
- 4 Pressure / parameter display
- 5 SV / setup item display
- 6 UP key
- 7 SET key
- 8 DOWN key
- 9 Power supply and output terminals
- 10 Pressure input pore

Terminals

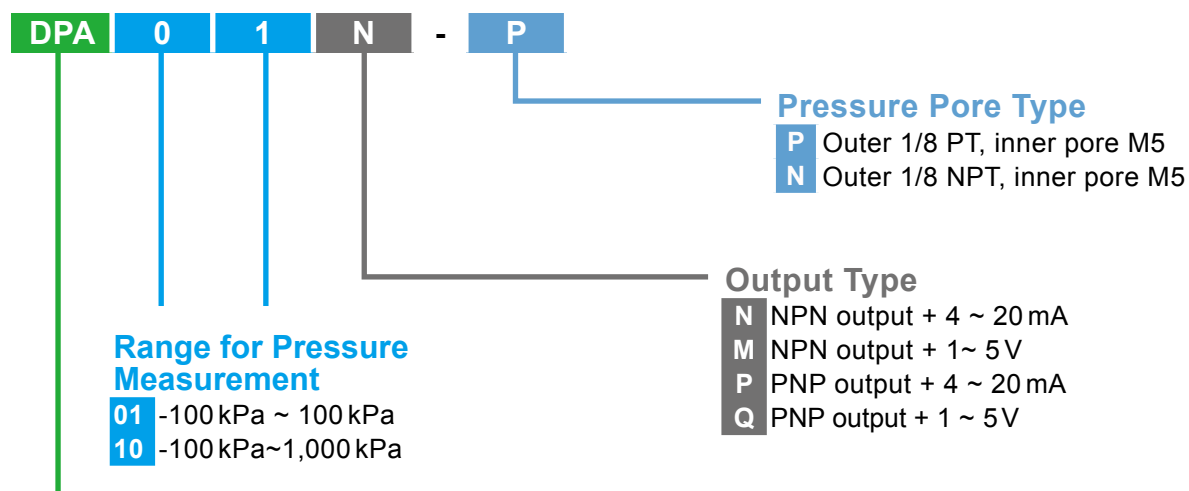


- 1 Positive power supply input (Brown)
- 2 Digital output 1 signal (Black)
- 3 Digital output 2 signal (White)
- 4 Analog output signal (Orange)
- 5 Negative power supply input (Blue)

Various Output Control Modes

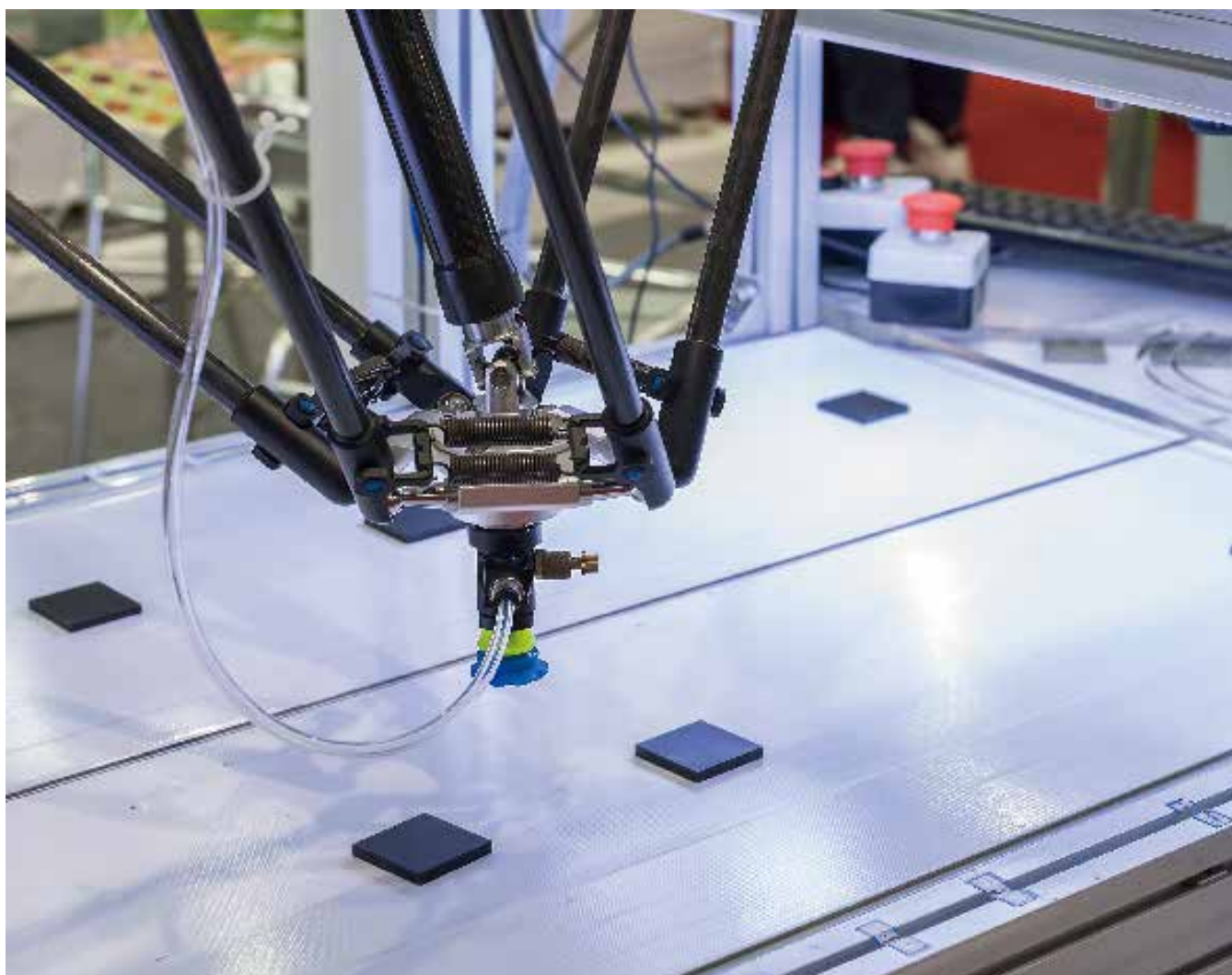


Ordering Information



Product Name

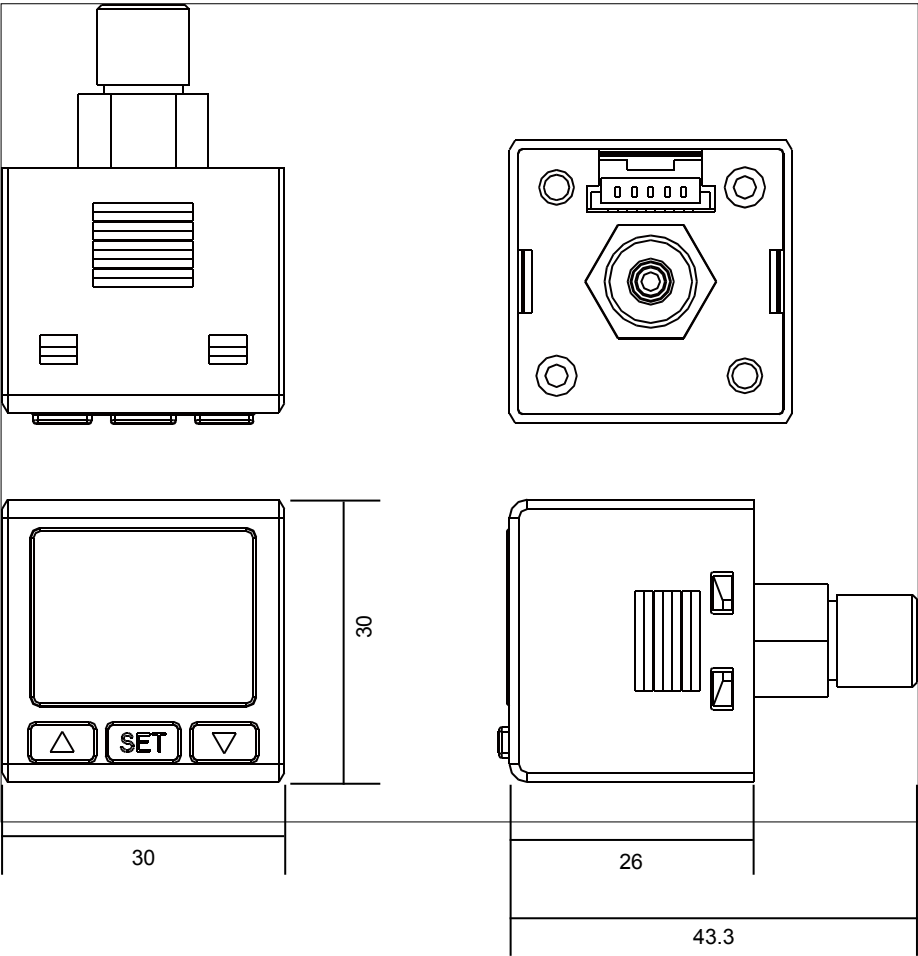
DPA Series pressure sensor





Dimensions

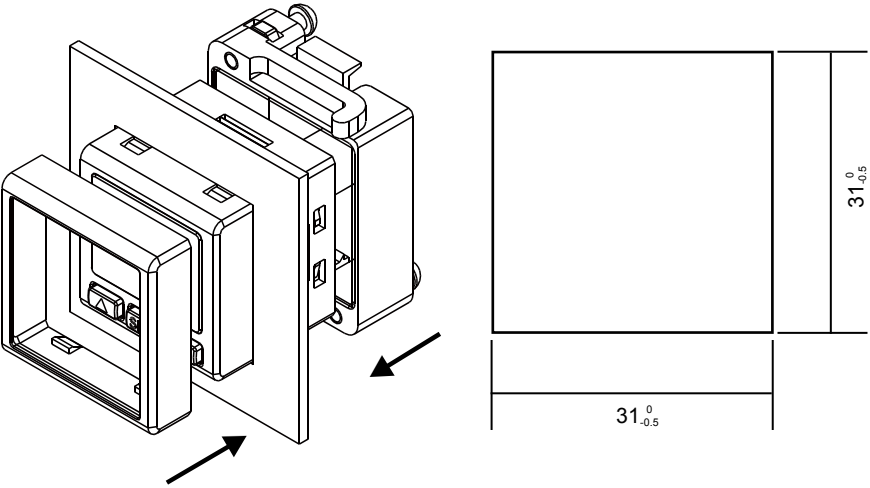
Unit : mm



Panel Accessory

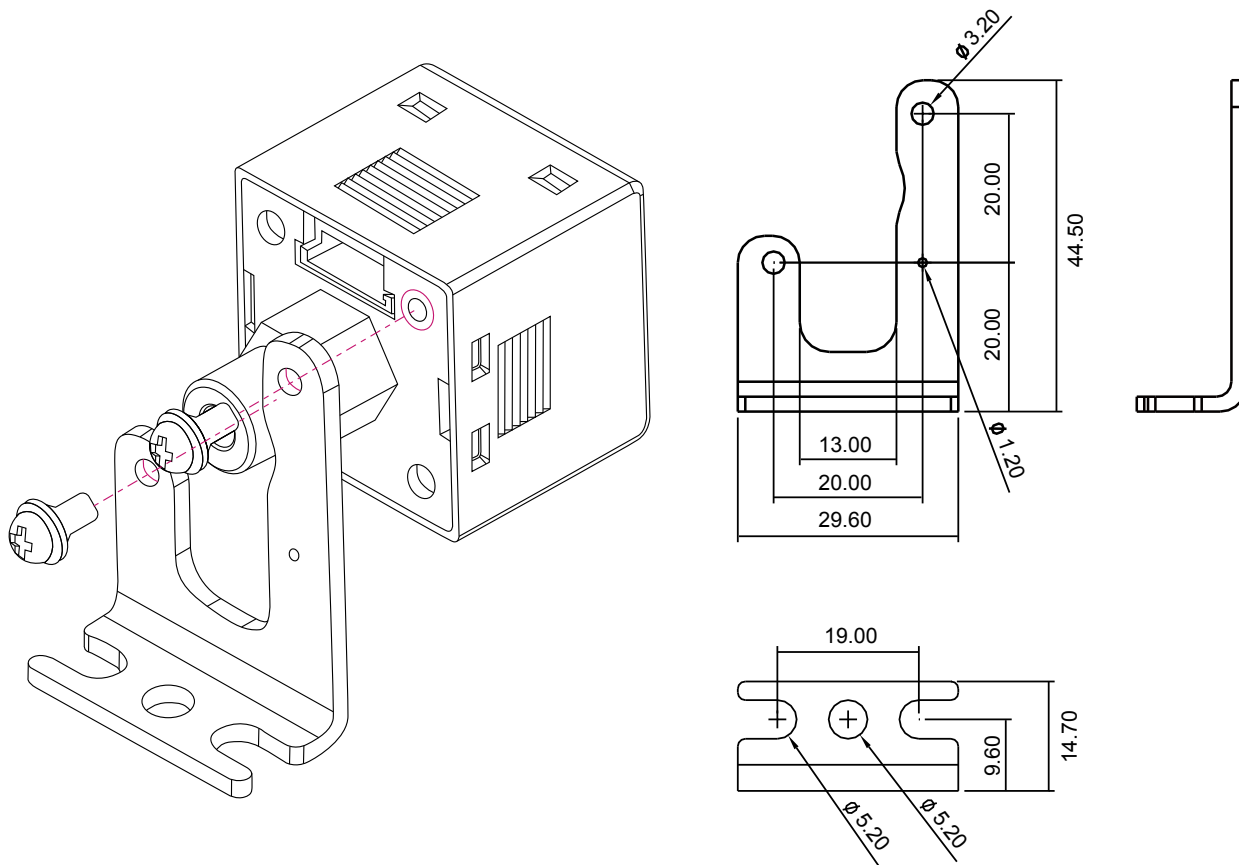
Unit : mm

Model: DPA-PFKit



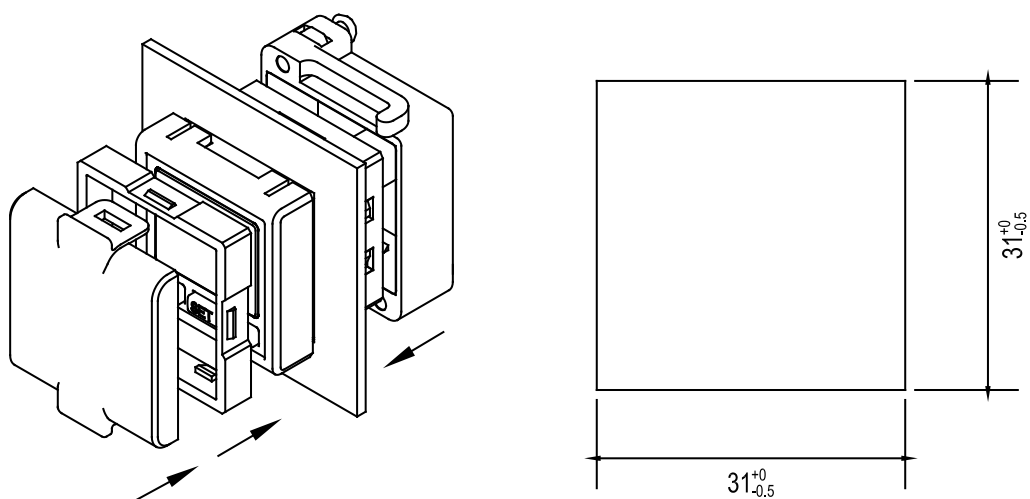
Shelf Accessory Unit : mm

Model: DPA-FMKit



Transparent Protective Cover Unit : mm

Model: DPA-FPCKIT





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Industrial Automation Headquarters

Delta Electronics, Inc.

Taoyuan Technology Center
No.18, Xinglong Rd., Taoyuan City,
Taoyuan County 33068, Taiwan
TEL: 886-3-362-6301 / FAX: 886-3-371-6301

Asia

Delta Electronics (Jiangsu) Ltd.

Wujiang Plant 3
1688 Jiangxing East Road,
Wujiang Economic Development Zone
Wujiang City, Jiang Su Province,
People's Republic of China (Post code: 215200)
TEL: 86-512-6340-3008 / FAX: 86-769-6340-7290

Delta Greentech (China) Co., Ltd.

238 Min-Xia Road, Pudong District,
Shanghai, P.R.C.
Post code : 201209
TEL: 86-21-58635678 / FAX: 86-21-58630003

Delta Electronics (Japan), Inc.

Tokyo Office
2-1-14 Minato-ku Shibadaimon,
Tokyo 105-0012, Japan
TEL: 81-3-5733-1111 / FAX: 81-3-5733-1211

Delta Electronics (Korea), Inc.

1511, Byucksan Digital Valley 6-cha, Gasan-dong,
Geumcheon-gu, Seoul, Korea, 153-704
TEL: 82-2-515-5303 / FAX: 82-2-515-5302

Delta Electronics Int'l (S) Pte Ltd

4 Kaki Bukit Ave 1, #05-05, Singapore 417939
TEL: 65-6747-5155 / FAX: 65-6744-9228

Delta Electronics (India) Pvt. Ltd.

Plot No 43 Sector 35, HSIIDC
Gurgaon, PIN 122001, Haryana, India
TEL : 91-124-4874900 / FAX : 91-124-4874945

Americas

Delta Products Corporation (USA)

Raleigh Office
P.O. Box 12173, 5101 Davis Drive,
Research Triangle Park, NC 27709, U.S.A.
TEL: 1-919-767-3800 / FAX: 1-919-767-8080

Delta Greentech (Brasil) S.A

Sao Paulo Office
Rua Itapeva, 26 - 3° andar Edifício Itapeva One-Bela Vista
01332-000-São Paulo-SP-Brazil
TEL: +55 11 3568-3855 / FAX: +55 11 3568-3865

Europe

Delta Electronics (Netherlands) B.V.

Eindhoven Office
De Witbogt 20, 5652 AG Eindhoven, The Netherlands
TEL: +31 (0)40-8003800 / FAX: +31 (0)40-8003898

*We reserve the right to change the information in this catalogue without prior notice.