

## Features

- ◇ Compact size and light weight, it can directly connected to air supply port or vacuum port.
- ◇ Used for condition monitoring of the vacuum system, optimizing the duty cycle and adjusting the system loop.
- ◇ Suitable for automation industry.



## How to order

ZPDB - P N - G1M - CN4

① ② ③ ④ ⑤

① Series	② Pressure range	③ Output specification
ZPDB	<b>C-</b> Compound <b>V-</b> Vacuum <b>P-</b> Positive	<b>N</b> - 2NPN Output <b>P</b> - 2PNP Output
④ Connection thread	⑤ Cable/Connector	
<b>G1M</b> - G1/8 Male thread <b>P1M</b> - PT1/8 Male thread <b>T1M</b> - NPT1/8 Male thread	<b>Nil</b> - With 2-meter 4Pin cable, no connector <b>CN4</b> - 0.3-meter cable with M8 4Pin male connector <b>CS4</b> - 0.3-meter cable with M8 4Pin male connector, additional M8 4Pin female connector	

## Selection

Model	Output specification		Connection thread			Cable/Connector		
	N	P	G1M	P1M	T1M	Nil	CN4	CS4
ZPDB-C	○	○	●	○	○	●	○	○
ZPDB-V	●	●	●	○	○	●	○	○
ZPDB-P	○	○	●	○	○	●	○	○

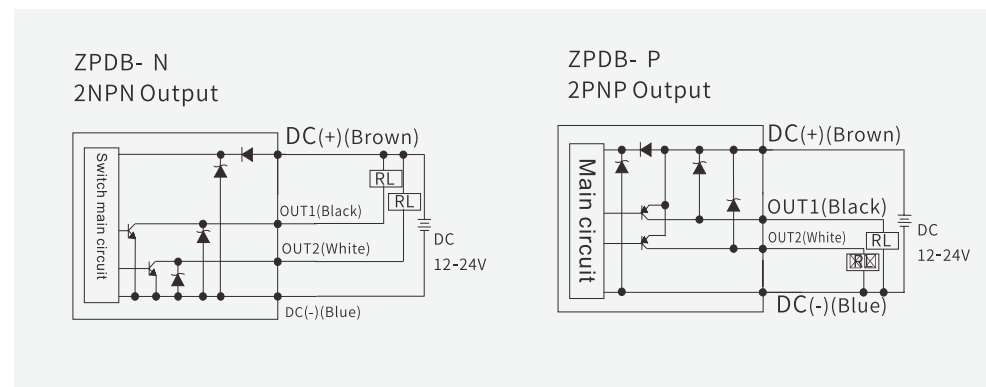
◇ Note: "●"- default, in stock. "○"-selective, no stock.

## Technical parameters

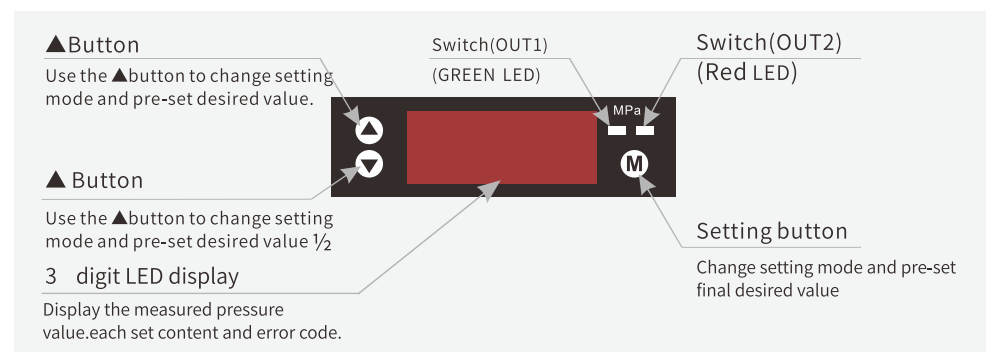
Model		ZPDB-C (Compound)	ZPDB-V (Vacuum)	ZPDV-P (Positive)
Rated pressure range		-100.0 ~ 100.0 kPa	-101.3 ~ 0.0 kPa	0.000 ~ 1.000 MPa
Setting pressure range		-100.0 ~ 100.0 kPa	-101.3 ~ 10.0 kPa	-0.100 ~ 1.000 MPa
Withstand pressure		300 kPa		1.5 MPa
Fluid		Filtered air, Non-corrosive gas/Non-flammable gas		
Set pressure resolution	kPa	0.1		-
	MPa	-		0.001
	kgf/cm <sup>2</sup>	0.001		0.01
	bar	0.001		0.01
	psi	0.01		0.1
	inHg	0.1		-
	mmHg	1		-
	mmH <sub>2</sub> O	0.1		-
Power supply voltage		12 to 24VDC ±10%, Ripple(P-P)10% or less		
Current consumption		55mA or less		
Switch output		NPN: open collector 2 outputs Max. load current: 80mA Max. supply voltage: 30V DC Residual voltage: ≤1V (load current 80mA) PNP: open collector 2 outputs Max. load current: 80mA Max. supply voltage: 24V DC Residual voltage: ≤1V (Load current 80mA)		
Repeatability		±0.2% F.S. ±1 digit or less		
Hysteresis	Hysteresis mode	Adjustable		
	Window comparator mode	Fixed (3 digits)		
Response time		≤2.5ms (chattering-proof function: 24ms, 192ms and 768ms selectable)		
Output short circuit protection		Yes		
Display		3 1/2 digit LED display (Sampling rate: 5 times/1sec)		
Indicator accuracy		±2% F.S. ±1 digit (ambient temperature: 25±3°C)		
Indicator		Green LED (OUT1), Red LED (OUT2)		
Environment	Enclosure	IP 40		
	Ambient temp. range	Operation: 0~50°C, storage: -20~60°C (No condensation or freezing)		
	Ambient humidity range	Operation/Storage: 35~85%RH (No condensation)		
	Withstand voltage	1000VAC1 in 1-min (between case and lead wire)		
	Insulation resistance	50 Mohm min, (at 500V DC) (between case and lead wire)		
	Vibration	Total amplitude 1.5mm, 10Hz~55Hz~10Hz two hours each direction of X, Y and Z.		
	Shock	980m/s <sup>2</sup> (100G) 3 times each in direction of X, Y and Z		
Temperature characteristic		±2% F.S. of detected pressure (25°C) at temp. Range of 0~50°C		
Port size		P1M: PT1/8 male thread, M5; T1M: NPT male thread, M5; G1M: G1/8 male thread, M5		
Lead wire		Oil-resistance cable (0.15mm <sup>2</sup> )		
Weight		Approx.*67g (with 2-meter lead wire), Approx.*35g (with male connector)		

Note: 1. Hysteresis value is adjustable within 1~8 digits for one point set mode and window comparator mode.  
 2. If analog voltage output is selected, the analog current output cannot be selected at the same time.  
 3. If analog current output is selected, the analog voltage output cannot be selected at the same time.

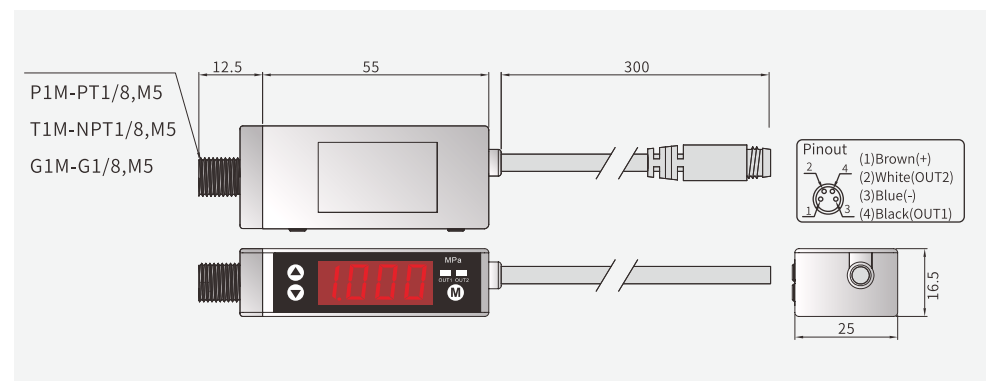
### Output circuit wiring diagram



### Panel instructions



### Dimensions (mm)



### Spare parts

