

CHELIC PSN(C, V)-42 Series

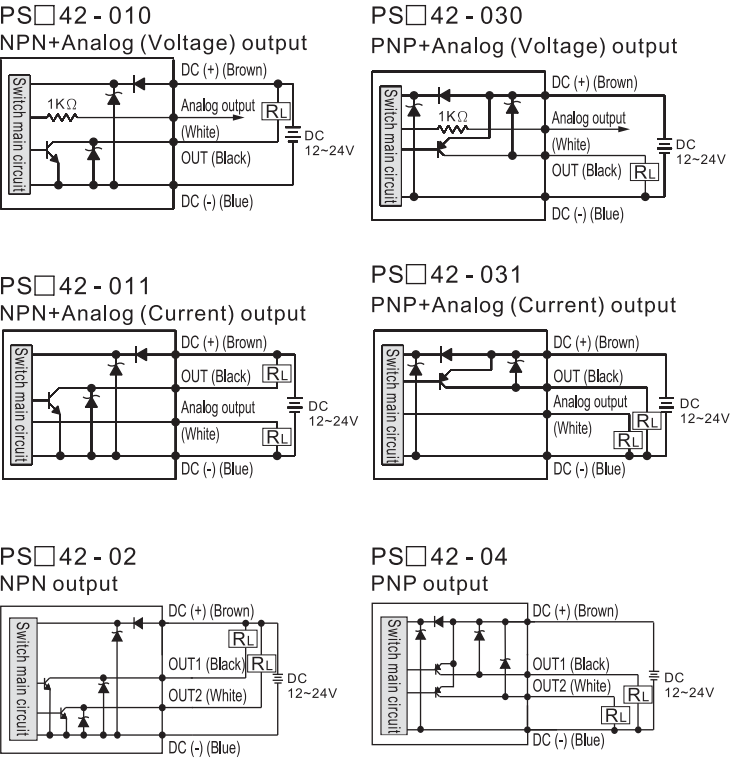
For your safety, please read the following before using.

1. Do not use corrosive or flammable gas or liquid with this product.
2. Please use within the operating pressure range. Do not apply pressure beyond recommended maximum pressure, permanent damage to the pressure sensor may occur.
3. Do not drop, hit or allow excessive shock. Even if switch body appears undamaged, internal components may be broken and can cause malfunction.
4. Turn power off before connecting wiring. Wrong wiring or short circuit will damage and/or cause malfunction.
5. Do not use in environment containing steam or oil vapor.
6. This product is not explosion-proof rated. Do not use in atmosphere containing Flammable or explosive gases.
7. Wiring for pressure sensor should avoid power source line and high voltage line. use in the same circuit, noise may cause malfunction.

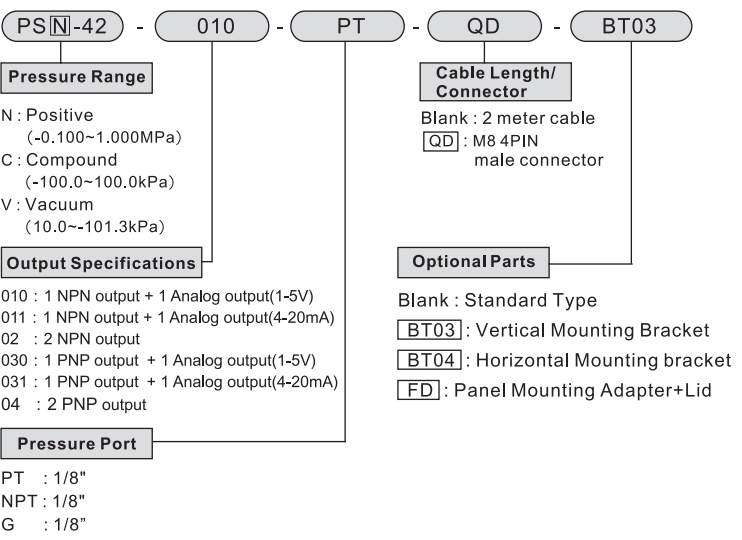
SPECIFICATIONS		PSC-42 (Compound)	PSV-42 (Vacuum)	PSN-42 (Positive)
Rated pressure range		-100.0 ~ 100.0kPa	0.0 ~ -101.3kPa	0.000 ~ 1.000MPa
Setting pressure range		-101.0 ~ 101.0kPa	10.0 ~ -101.3kPa	-0.100 ~ 1.000MPa
Withstand pressure		300kPa		1.5MPa
Fluid		Air, Non-corrosive / Non-flammable gas		
Set pressure resolution	kPa	0.1		—
	MPa	—		0.001
	kgf/cm ²	0.001		0.01
	bar	0.001		0.01
	psi	0.01		0.1
	inHg	0.1		—
	mmHg	1		—
Power supply voltage		12 to 24V DC ±10%, Ripple (P-P) 10% or less		
Current consumption		≤ 40mA (With no load)		
Switch output		NPN: open collector 2 outputs Max. load current: 125mA Max. supply voltage: 30V DC Residual voltage: ≤ 1.5V PNP: open collector 2 outputs Max. load current: 125mA Max. supply voltage: 24V DC Residual voltage: ≤ 1.5V		
Repeatability(Switch output)		≤ ±0.2% F.S. ±1 digit		
Hysteresis	One point set mode	Adjustable(*1)		
	Hysteresis mode			
	Window comparator mode			
Response time		≤ 2.5ms (chattering-proof function: 25ms, 100ms, 250ms, 500ms, 1000ms and 1500ms selections)		
Output short circuit protection		Yes		
7 segment LCD display		Two color(Red/Green) main & unit display, Orange sub-display (Sampling rate: 5 times/1sec.)		
Indicator accuracy		≤ ±2% F.S. ±1 digit (ambient temperature: 25 ±3°C)		
Switch ON Indicator		Orange (1 & 2 Indicator) OUT1 OUT2		
Analog output (Voltage Output) *2		Output Voltage: 1 to 5V ± ±2.5% F.S. (within rated pressure range) Linearity: ≤ ±1% F.S. Output impedance: about 1kΩ		
Analog output (Current Output) *3		Output Current: 4 to 20mA ± ±2.5% F.S. (within rated pressure range) Linearity: ≤ ±1% F.S. Max.Load Impedance: 300Ω at power supply of 12V, 600Ω at power supply of 24V Min.Load impedance: 50Ω		
Environment	Enclosure	IP40		
	Ambient temp. range	Operation: 0 ~ 50°C, Storage: -10 ~ 60°C (No condensation or freezing)		
	Ambient humidity range	Operation/Storage: 35 ~ 85% RH (No condensation)		
	Withstand voltage	1000V AC in 1-min (between case and lead wire)		
	Insulation resistance	50Mohm min. (at 500V DC, between case and lead wire)		
	Vibration	Total amplitude 1.5mm or 10G, 10Hz-150Hz-10Hz scan for 1 minute, two hours each direction of X, Y and Z		
	Shock	100ms ² (10G), 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		PT 1/8" · NPT1/8" · G1/8"		
Lead wire		Oil-resistance cable(0.15mm ²)		
Weight		Approx. 80g (with 2-meter lead wire), Approx. 45g (with M8, 4-pin male connector)		

*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.

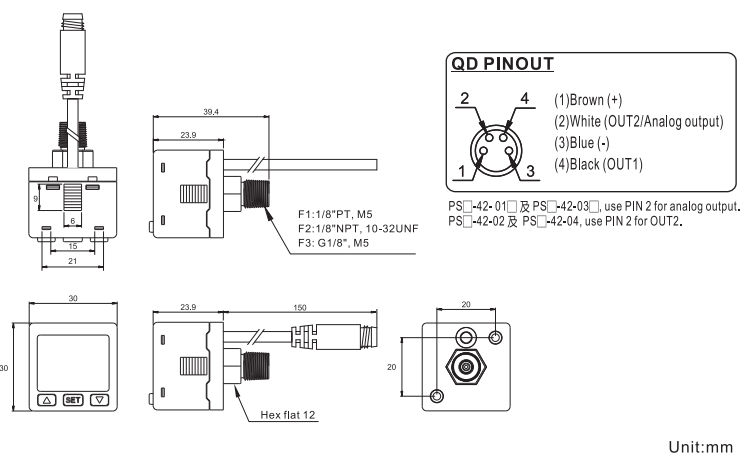
OUTPUT CIRCUIT WIRING DIAGRAMS



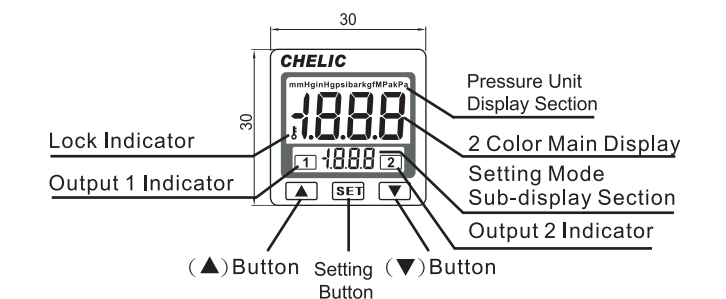
ORDERING INFORMATION



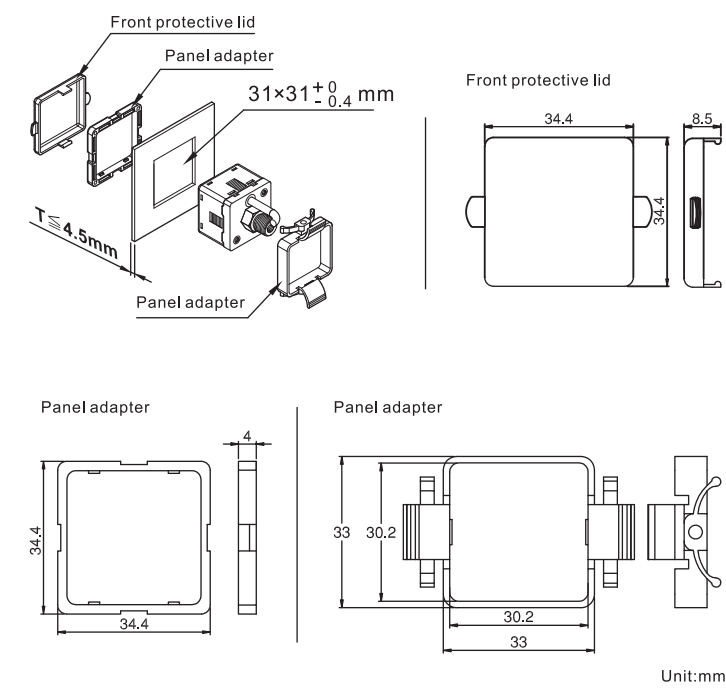
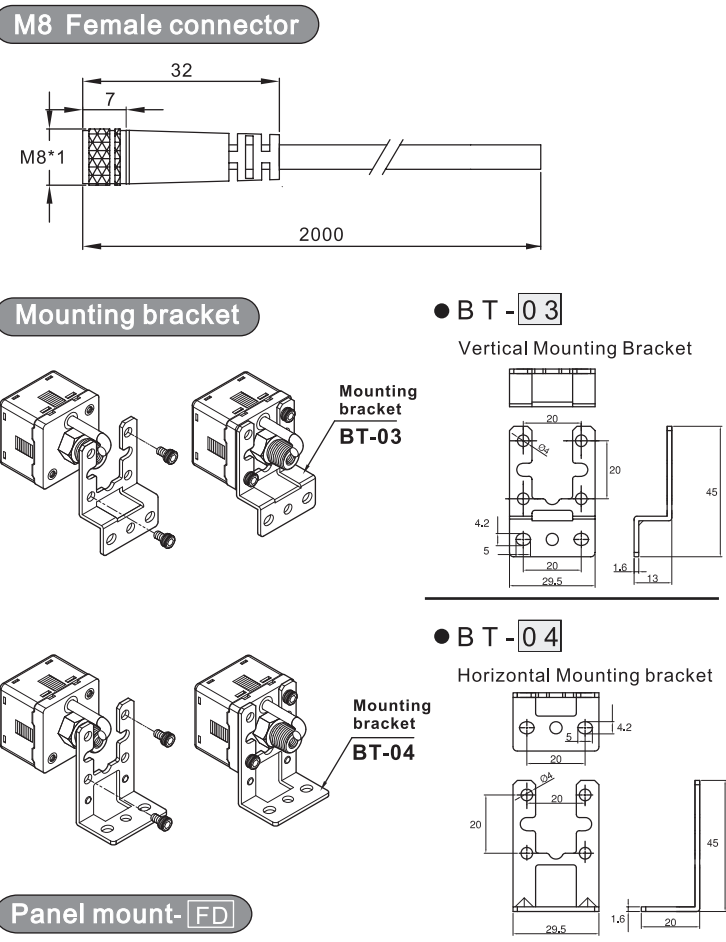
DIMENSIONS



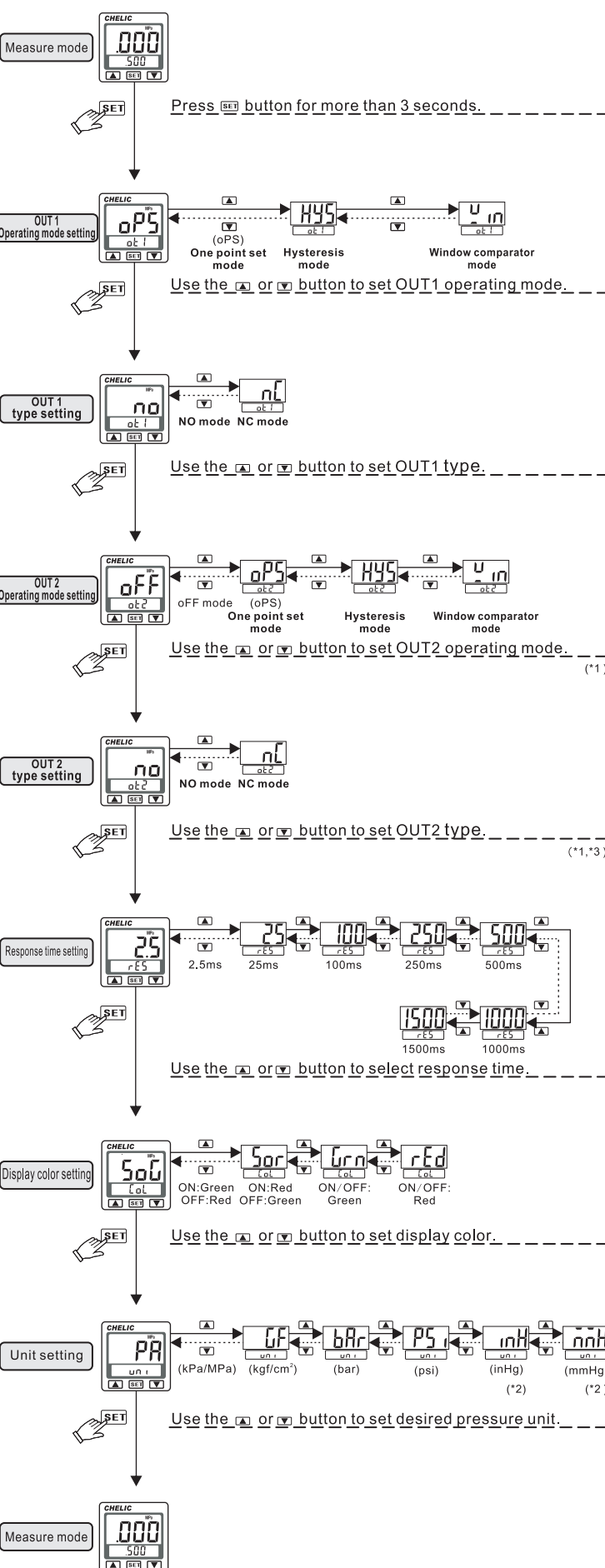
PANEL DESCRIPTION



TYPE OF SPARE PARTS / DIMENSION GRAPH



INITIAL SETTING MODE



【NOTE :】

*1. Only applicable for PS□42-02, PS□42-04.

*2. This display unit is only applicable for PSV-42 and PSC-42.

*3. This setting mode will not display when output 2 is set to oFF.

