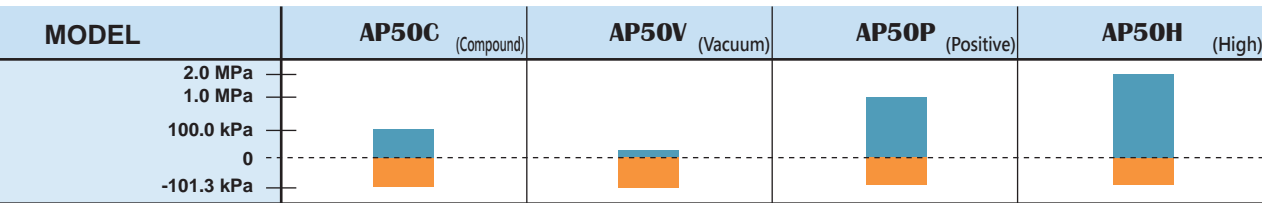


## SPECIFICATIONS

MODEL		AP50C (Compound)	AP50V (Vacuum)	AP50P (Positive)	AP50H (High)
					
Rated pressure range		-100.0 ~ 100.0 kPa (-14.50 ~ 14.50 psi)	0.0 ~ -101.3 kPa (0.0 ~ -29.9 inHg)	0.000 ~ 1.000 MPa (0.0 ~ 145.0 psi)	0.000 ~ 2.00 MPa (0.0 ~ 290 psi)
Setting pressure range		-101.0 ~ 101.0 kPa (-14.50 ~ 14.50 psi)	10.0 ~ -101.3 kPa (1.45 psi ~ -29.9 inHg)	-0.100 ~ 1.000 MPa (-14.5 ~ 145.0 psi)	-0.100 ~ 2.00 MPa (-14.5 ~ 290 psi)
Withstand pressure		300 kPa (43.5 psi)		3 MPa (435 psi)	
Fluid		Fluids do not corrode stainless steel 316L			
Sealed liquid		Silicon oil			
Set pressure resolution	kPa	0.1	-	-	-
	MPa	-	0.001	0.001(-1.999) 0.01(2.00-)	0.001(-1.999) 0.01(2.00-)
	kgf/cm <sup>2</sup>	0.001	0.01	0.01(-19.99) 0.1(20.0-)	0.01(-19.99) 0.1(20.0-)
	bar	0.001	0.01	0.01(-19.99) 0.1(20.0-)	0.01(-19.99) 0.1(20.0-)
	psi	0.01	0.1	0.1(-199.9) 1(200-)	0.1(-199.9) 1(200-)
	inHg	0.1	-	-	-
Power supply voltage		12 to 24V DC $\pm 10\%$ , Ripple (P-P) 10% or less			
Current consumption		$\leq 40\text{mA}$ (With no load)			
Switch output		NPN: open collector 2 outputs Max. load current: 125mA Max. supply voltage: 30V DC Residual voltage: $\leq 1.5\text{V}$		PNP: open collector 2 outputs Max. load current: 125mA Max. supply voltage: 24V DC Residual voltage: $\leq 1.5\text{V}$	
Repeatability(Switch output)		$\pm 0.3\%$ F.S. $\pm 1$ digit			
Hysteresis	One point set mode	Adjustable (*1)			
	Hysteresis mode				
	Window comparator mode				
Response time		$\leq 2.5\text{ms}$ (chattering-proof function: 25ms, 100ms, 250ms, 500ms, 1000ms and 1500ms selectable)			
Output short circuit protection		Yes			
7 segment LCD display		3½ digit, 7 segment (red/green)			
Indicator accuracy		$\pm 2\%$ F.S. $\pm 1$ digit (ambient temperature: 25 $\pm 3^\circ\text{C}$ )			
Switch ON Indicator		Orange (1&2 Indicator) OUT1 OUT2			
Analog output (Voltage Output) (*2)		Output Voltage: 1 to 5V $\pm 2.5\%$ F.S. (within rated pressure range) Linearity: $\pm 1\%$ F.S. Output impedance: about 1k $\Omega$			
Analog output (Current Output) (*3)		Output Current: 4 to 20mA $\pm 2.5\%$ F.S. (within rated pressure range) Linearity: $\pm 1\%$ F.S. Max.Load impedance: 250 $\Omega$ at power supply of 12V , 600 $\Omega$ at power supply of 24V Min.Load impedance: 50 $\Omega$			
Environment	Enclosure	IP 65			
	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	250V AC in 1-min (between case and lead wire)			
	Insulation resistance	50M $\Omega$ (at 500V DC, between case and lead wire)			
	Vibration	Total amplitude 1.5mm or 10G,10Hz-55Hz-10Hz scan for 1 minute, two hours each direction of X, Y and Z			
Shock		100m/s <sup>2</sup> (10G), 3 times each in direction of X, Y and Z			
Temperature characteristic		$\pm 3\%$ F.S. of detected pressure (25°C) at temp. Range of 0~50°C			
Port size (*4)		F1 : R1/4", M5; F2 : NPT1/4", #10-32 UNF; F3 : G1/4"(BSPP), M5; F1C : Rc1/8"			
Lead wire		Oil-resistance cable(0.15mm <sup>2</sup> )			
Weight (with 2 meter lead wire)		Approx. 110g (Rear ported) , Approx. 145g (Bottom ported)			

[ NOTE ] \*1 : Hysteresis value is adjustable within 1 ~ 8 digits for one point set mode and window comparator mode.

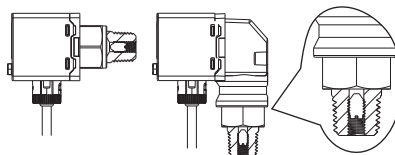
\*2 : If analog voltage output is selected, the analog current output cannot be selected at the same time.

\*3 : If analog current output is selected, the analog voltage output cannot be selected at the same time.

\*4 : G port O-Ring material is NBR. if any special request, please contact ADSENS.

## REMOVABLE SNUBBER INSTALLED

Pressure port equipped with snubber can avoid damage caused by sudden pressure surge of water or oil, improve product durability.



\*When snubber is clogged with contaminants, please use a flat head screwdriver to remove the snubber, clean and reinstall.