

## AP40 Series

### Features

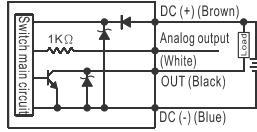
- 2 Colors display.
- Unit setting adjustable.
- When setting the pressure unit, it will display on the sub-display section.
- The status of setting mode will display on the sub-display section.
- Saving space.



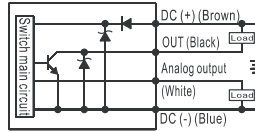
SPECIFICATION		AP40C-□-□ (Compound)	AP40V-□-□ (Vacuum)	AP40P-□-□ (Positive)
RATED PRESSURE RANGE		-100.0 ~ 100.0kPa	-101.3 ~ 0.0kPa	0 ~ 1000kPa
OPERATING/SETTING PRESSURE RANGE		-101.0 ~ 101.0kPa	-101.3 ~ 10.0kPa	-100 ~ 1000kPa
WITHSTAND PRESSURE		300 kPa		1500 kPa
FLUID		Air, Non-corrosive/Non-flammable gas		
SET PRESSURE	kPa	0.1		1
	kgf/cm <sup>2</sup>	0.001		0.01
RESOLUTION	bar	0.001		0.01
	psi	0.01		0.1
	InHg	0.1		--
	mmHg	1		--
POWER SUPPLY VOLTAGE		12 to 24VDC ±10%, Ripple (P-P) 10% or less		
CURRENT CONSUMPTION		45mA (with no load)		
SWITCH OUTPUT		NPN: open collector1 output Max. load current: 125mA Max. supply voltage: 30VDC Residual voltage: ≤ 1.5V (load current 125mA) PNP: open collector1 output Max. load current: 125mA Max. supply voltage: 24VDC Residual voltage: ≤ 1.5V (load current 125mA)		
REPEATABILITY (SWITCH OUTPUT)		≤ ±0.2% F.S.±1 digit		
HYSTERESIS	HYSTERESIS MODE	Adjustable		
	WINDOW COMPARATOR MODE	Adjustable		
RESPONSE TIME		≤ 2.5ms (chattering-proof function: 24ms, 250ms, 500ms, 1000ms and 1500ms selections)		
OUTPUT SHORT CIRCUIT PROTECTION		Yes		
7 SEGMENT LED DISPLAY		2 color (Red/Green) display (Sampling rate: 5 times/1 sec.)		
INDICATOR ACCURACY		≤ ±2% F.S.±1 digit (ambient temperature: 25±3°C)		
INDICATOR		Green OUT indicator		
ANALOG OUTPUT (VOLTAGE OUTPUT)		Output Voltage: 1 to 5V ± 2.5%F.S. or less (within rated pressure range) Linearity: ±1.0% F.S. or less Output impedance: about 1kΩ		
ANALOG OUTPUT (CURRENT OUTPUT)		Output Current: 4 to 20mA ± 2.5%F.S. (within rated pressure range) Linearity: ±1.0% 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	1000VAC in 1-min (between case and lead wire)		
	INSULATION RESISTANCE	50Mohm min. (at 500VDC M, between case and lead wire)		
	VIBRATION	Total amplitude 1.5mm, 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		≤ ±2% F.S. of detected pressure (25°C) at temp. range of 0~50°C		
PORT SIZE		F1:1/8"PT, F2:1/8"NPT, F3: G1/8"		
LEAD WIRE		Oil-resistance cable (0.15mm <sup>2</sup> )		
WEIGHT		Approx. 75g (with 2-meter lead wire), Approx. 45g (with male connector)		

## OUTPUT CIRCUIT WIRING GRAPH

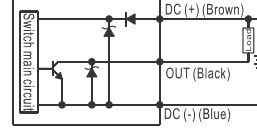
AP40□-010-□-□  
NPN+Analog(Voltage) output



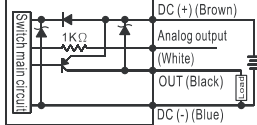
AP40□-011-□-□  
NPN+Analog(Current) output



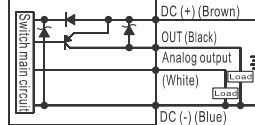
AP40□-02-□-□  
NPN output



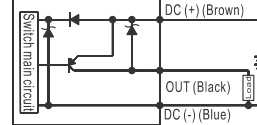
AP40□-030-□-□  
PNP+Analog(Voltage) output



AP40□-031-□-□  
PNP+Analog(Current) output



AP40□-04-□-□  
PNP output



## ORDERING INFORMATION

**AP40 C 02 - F1 - QD**

### Pressure Range

- P: Positive (-100 ~ 1000 kPa)
- C: Compound (-101 ~ 101 kPa)
- V: Vacuum (-101.3 ~ 0 kPa)

### Output Specifications

- 010: 1 NPN Output + 1 Analog output(1-5V)
- 011: 1 NPN Output + 1 Analog output(4-20mA)
- 02: 1 NPN Output
- 030: 1 PNP Output + 1 Analog output(1-5V)
- 031: 1 PNP Output + 1 Analog output(4-20mA)
- 04: 1 PNP Output

### Port

- F1: PT 1/8"
- F2: 1/8" NPT
- F3: G1/8"

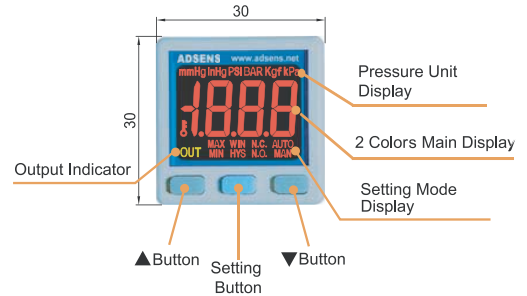
### Cable Length/connector

- Blank: With 2 meter cable
- QD : With M8, 4 Pin male connector

### Optional Spare Part

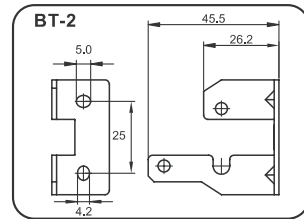
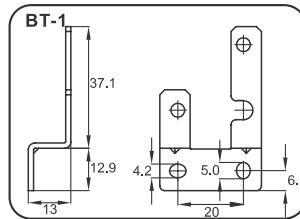
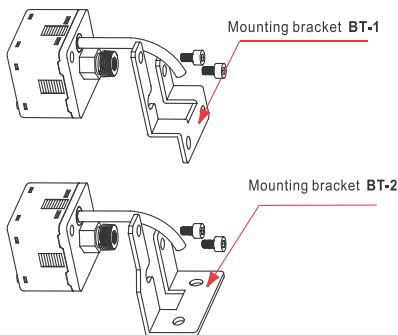
- AP20-A : Mounting bracket (BT-1+BT-2)
- AP40-B : Panel adapter (PA-3+PA-4)
- AP40-C : Panel adapter + Front protective lid (PA-3+PA-4+FPC-2)

## PANEL INSTRUCTIONS



## TYPE OF SPARE PARTS/DIMENSION GRAPH

### 1 Mounting bracket



### 2 Panel type

