




Features

- Pressure unit on display
- User programmable pressure unit :
psi \ bar \ kgf/cm² \ kPa and MPa
- Accurate read out with wide viewing angle
- Dust and splash-proof IP65 enclosure
- LCD Display



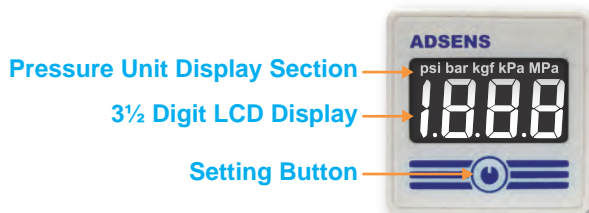
SPECIFICATIONS

TYPE	AP61V (Vacuum)	AP61P (Positive)
		
Rated pressure range	0 ~ -101 kPa (-14.7 ~ 0.0 psi)	0.000 ~ 1.000 MPa (0.0 ~ 145.0 psi)
Display pressure range	10 ~ -101 kPa (-14.7 ~ 1.5 psi)	-0.100 ~ 1.000 MPa(*1) (-14.7 ~ 145.0 psi)
Withstand pressure	300 kPa (43.5 psi)	1.5 MPa (217.6 psi)
Applicable fluid	Filtered air, incombustible and non-corrosive gases	
Pressure resolution	kPa	1
	MPa	-
	kgf/cm ²	0.01
	bar	0.01
	psi	0.1
Power supply voltage	12 to 28V DC ±10%, Ripple (P-P) 10% or less	
Current consumption	10mA	
Sampling rate	2 Hz (2 times/sec.)	
Repeatability	±1% F.S. ±1 digit	±0.2% F.S. ±1 digit
LCD display	3½ digit, 7 segment	
Indicator accuracy	±2% F.S. ±1 digit (ambient temperature: 25 ±3 °C)	
Environment	Enclosure	IP 65(*2)
	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	50MΩ (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 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	F1:R1/8", M5; F2:NPT1/8", #10-32 UNF; F3:G1/8"(BSPP), M5	
Lead wire	Oil-resistance cable (0.15mm ²)	
Weight	Approx. 60g (with 2 meter lead wire), Approx. 40g (with M8 4Pin male connector)	

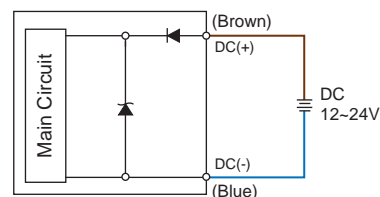
[NOTE] *1. When the pressure is -0.1 MPa, LCD displays  MPa.

*2. Air tube must be installed to maintain IP65.

PANEL DESCRIPTION



CIRCUIT WIRING DIAGRAM



* Pressure display only, no switch output function.

ORDERING INFORMATION

AP61P-F1-

Pressure Range

V : Vacuum
 10 ~ -101 kPa
 (1.5 ~ -14.7psi)

P : Positive

-0.100 ~ 1.000 MPa
 (-14.5 ~ 145.0 psi)

Pressure Port

F1 : R1/8", M5
 F2 : NPT1/8", #10-32 UNF
 F3 : G1/8"(BSPP), M5

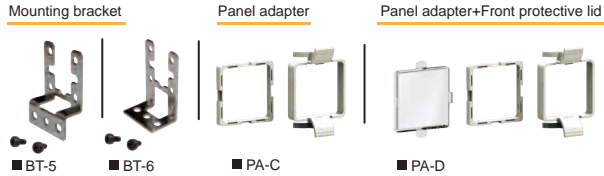
Cable Length / Connector

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

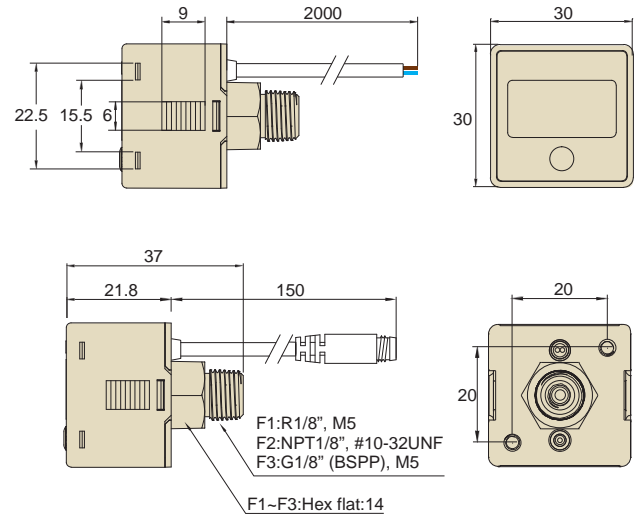
Optional Parts

KM84R-PVC-2M / KM84R-PVC-5M :
 M8, 4-Pin female cordset
 BT-5 : Mounting bracket
 BT-6 : Mounting bracket
 PA-C : Panel adapter
 PA-D : Panel adapter + Front protective lid

Optional Parts

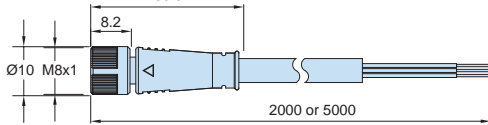


DIMENSIONS

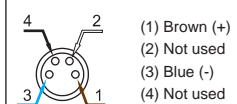


OPTIONAL PARTS DIMENSIONS

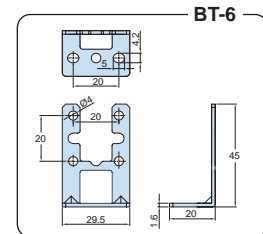
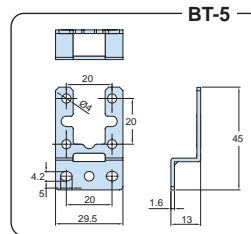
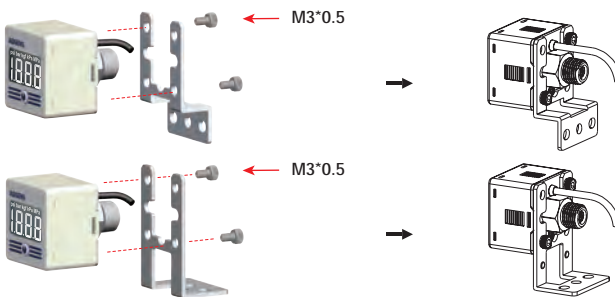
1 M8 Female Cordset model : KM84R-PVC-2M / KM84R-PVC-5M



QD PINOUT



2 Mounting Bracket



3 Panel Mount Adapter + Front Protective Lid

