[Analog output Type]



## A241

### Piezoresistive diffusion silicon of metal diaphragm

#### **FEATURES**

- **■** Superior Long term Stability
- Provides a high level output
- **■** Linear Amplified Output
- **■** Excellent Repeatability & Hysteresis
- **■** Temperature Compensated
- **EMI/RFI Protection**
- Customizable

The A2410DM(CM) series uses a stainless steel diaphragm filled with silicone oil and a piezoresistive diffusion silicon type as the sensing element, providing excellent resistance to most liquids and chemicals when mounted.

Ruggedness and reliability are also enhanced by a stainless steel housing to resist corrosion pressure sealing for media compatibility is provided by selection of Non-welding Sealing type. Metal sensing element contains and integral, reliable, solid state, custom ASIC



#### **APPLICATIONS**

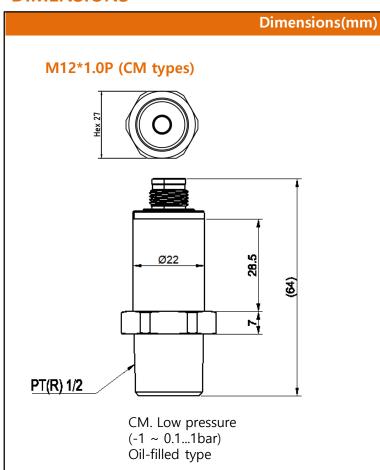
- ✓ Pneumatic and Hydraulic controls
- ✓ Pump and Compressors
- ✓ Refrigeration units
- ✓ Agricultural technology
- ✓ Energy and Water Management
- ✓ Environmental control systems

aling type. Metal sensing element contains and integral, reliable, solid state, custom ASIC.   Environmental control systems			
PERFORMANCE SPECIFICATIONS			
PARAMETERS	Current (2-Wire)	Voltage (3-Wire)	
Output	4~20mA	0~5V, 0.5~4.5V, 1~5V, 0~10V	
Power Supply	8~30VDC [Option]		
Electric Connection	M12, DIN43650C, Etc. [Option]		
Pressure Range	±500mmH2O, 1000mmH2O, ±250mb, ±500mb, Etc. [Option]		
Operating Temp. Range	-40 to	125℃	
Compensated Temp. Range	-20 to 80°C		
Accuracy	≤±0.5%F.S [Typical/25°C]		
Total Error band	≤±1.5%F.S [Typical]		
Hysteresis and repeatability	≤±0.1%F.S [Typical] / ≤±0.15%F.S [MAX]		
Pressure Port	R(PT)1/4, R(PT)1/2, Etc. [Option]		
Wetted Port material	STS316		
Body / Pressure Port material	STS316		
Electric connection material	PA66+GF30 gold plated Pin		
Enclosure	IP65(DIN43650), IP67		
Over Pressure / Burst Pressure	2xF.S. / 5xF.S.		
Response time 10~90%	≤2	ms	
Withstand voltage	500V AC (1minutes between	case and all terminals tied)	
Insulation resistance	Greater than $100M\Omega$ (20V DC bet	tween case and all terminals tied	
Mechanical life cycle	1,000,00	00/cycle	
Circuit protection	Reverse polarity protect	ted. (Power supply +/-)	
Shock proof	1000m/s² (6ms or less,X,Y,Z 3tim	es for each at constant temp.)	
Vibration proof	200m/s² (10~1000Hz, Y:4h,	Z:2h at constant temp.)	
Pressure medium	Non-corrosive mediur	n(Air, Water, Oil, Gas)	
Weight	100g (M12	Connector)	

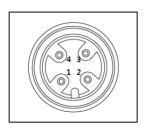
[Analog output Type]



### **DIMENSIONS**

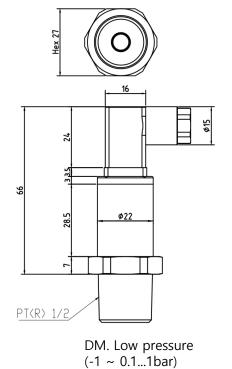


#### **ELECTRONICAL CONNECTIONS**



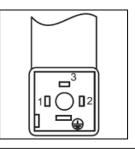
Ouput signal	Current	Voltage
1	Power(+)	Power(+)
2	NC	Output
3	Power(-)	GND
4	NC	NC

#### DIN43650C (DM types)



Oil-filled type

#### **ELECTRONICAL CONNECTIONS**

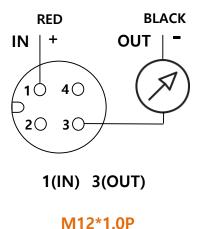


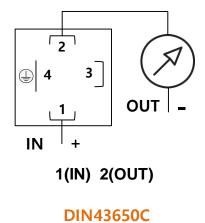
Ouput signal	Current	Voltage
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3	NC	Output
PE	<b>(</b>	

[Analog output Type]

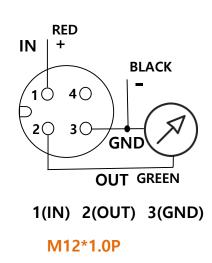


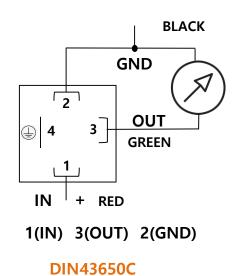
### **Current Output(2-Wire)**





### **Voltage Output(3-Wire)**





[Analog output Type]



### **Ordering Information**

### A2410D-133G

12 3456

1. Power Supply		
0	8~30VDC	
1	5VDC	

2. Connection		
Α	Deutsch DT04-3P	
В	Packard Metri-Pack	
С	M12*1.0P (C, CM)	
D	DIN43650C (D, DM, DA)	
Е	Fixed Cable	
F	Deutsch DT04-4P	
G	HW090 6181-0072	
Н	Superseal series 1.5	
ı	Other	

3. Output		
1	4~20mA	
2	0~5V	
3	0.5~4.5V	
4	1~5V	
5	0~10V	

4. Pressure Port	
1	G(PF)1/4
2	G(PF)1/2
3	R(PT)1/4
4	R(PT)1/2
5	9/16-18 UNF(M)
6	7/16-20 UNF(Fe)
7	7/16-20 UNF(M)
8	Other

5. F	Pressure Range
V	± 250mb
W	± 500mb
Х	± 250mmH2O
Υ	± 500mmH2O
Z	0~1000mmH2O
1	-1~15bar
2	-1~35bar
3	0~10bar
4	0~16bar
5	0~20bar
6	0~25bar
7	0~30bar
8	0~35bar
9	0~50bar
Α	0~100bar
В	0~200bar
С	0~250bar
D	0~500bar
Е	Other

6. Pressure Type		
G	Gage	
Α	Absolute	

[Analog output Type]



#### Cable accessories

Туре	Description
Cable with ROUND Packard Metri-Pack mating connector	1m with outer sheath
Cable with ROUND Packard Metri-Pack mating connector	2m with outer sheath
Cable with ROUND Packard Metri-Pack mating connector	3m with outer sheath
Cable with M12*1-4P mating connector	1m with outer sheath
Cable with M12*1-4P mating connector	2m with outer sheath
Cable with M12*1-4P mating connector	3m with outer sheath
Cable with Deutsch(DT04-3P) mating connector	1m
Cable with Deutsch(DT04-3P) mating connector	2m
Cable with Deutsch(DT04-3P) mating connector	3m
Fixed Cable	1m with outer sheath
Fixed Cable	2m with outer sheath
Fixed Cable	3m with outer sheath



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