[Analog output Type]

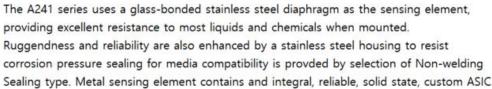


A241

MEMS sensor 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



- / Pneumatic and Hydrulic controls
- √ Pump and Compressors
- √ Refrigeration units
- √ Agricultural technology

APPLICATIONS

- √ Energy and Water Manabement

PERFORMANCE SPECIFICATIONS		
PARAMETERS	Current (2-Wire)	Voltage (3-Wire)
Output	4~20mA	0.5~4.5V, 1~5V, 0~10V
Power Supply	5VDC, 8-	~30VDC
Electric Connection	Deutsch, Packard, M12, DIN436	50C, Fixed Cable, Etc. [Option]
Pressure Range	-10 ~ 1000ba	r, Etc. [Option]
Operating Temp. Range	-40 to	125℃
Compensated Temp. Range	-20 to	80°C
Accuracy	≤±0.5%F.S [7	[ypical/25°C]
Total Error band	≤±1.5%F.S [T	ypical/25°C]
Hysteresis and repeatability	≤±0.1%F.S [Typical/25°C] / ≤±0.15%F.S [Typical/25°C]	
Pressure Port	G1/4, G1/2, R(PT)1/4, R(PT)1/2, 7/16-20UNF(Fe), Etc. [Option]	
Wetted Port material	STS630	
Body / Pressure Port material	STS316 / STS303 Electrolytic Polishing	
Electric connection material	PA66+GF30 gold plated Pin	
Enclosure	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 100MΩ (20V DC bet	ween case and all terminals tied
Mechanical life cycle	5,000,000/cycle	
Circuit protection	Reverse polarity protected. (Power supply +/-)	
Shock proof	1000m/s² (6ms or less,X,Y,Z 3times for each at constant temp.)	
Vibration proof	200m/s² (10~1000Hz, Y:4h, Z:2h at constant temp.)	
Pressure medium	Non-corrosive medium(Air, Water, Oil, Gas)	
Sensor element	Full Bridge MEMS o	of metal diaphragm
Weight	0.05kg (DIN43650- C type)	

[Analog output Type]



MEMS Sensor & Diaphragm



- Compact design
- I Designed for use in OEM applications
- I Various connector colors available
- Provides a high level output
- Long term stability
- I Micro silicone metal sensor
- MEMS part "Full bridge"
- Gold cup & gold spring connection structure
- 2 Wire bonding
- EMC Safety function protection
- I Reverse voltage protection circuit

[Analog output Type]



Pressure Sensor



Port Connections

Pressure	G1/4A	G1/4A	M14X1.5	9/16-18 UNF(M)
Connections	ISO 1179/DIN3852-E Oring (P11)	ISO 1179-2 ED seal(DIN3869)	ISO 9974-2 ED Seal(DIN3869)	ISO11926-2/3 Oring(3-906)
	Torque 40 Nm	Torque 40 Nm	Torque 35Nm	Torque 30 Nm
Pressure	G3/8A	R(PT)1/8	R(PT)1/4	7/16-20 UNF(Fe)
Connections	ISO 1179/DIN3852-E Oring (P14)	DIN 2999-Rc(Japan: PT)	DIN 2999-Rc(Japan: PT)	ISO11926-2/3
	Torque 70 Nm	2-3 Tums	2-3 Turns	Torque 18 Nm

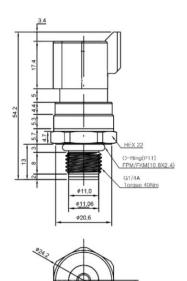
[Analog output Type]



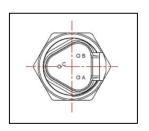
DIMENSIONS

Dimensions (mm)

Deutsch DT04-3P

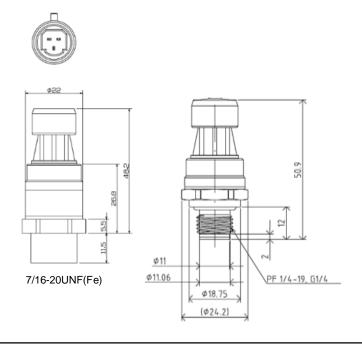


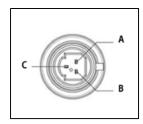
ELECTRONICAL CONNECTIONS



Ouput signal	Current	Voltage
Α	Power(+)	Power(+)
В	NC	Output
С	Power(-)	GND

ROUND Packard Metri-Pack





Ouput signal	Current	Voltage
Α	Power(-)	GND
В	Power(+)	Power(+)
С	NC	Output

[Analog output Type]

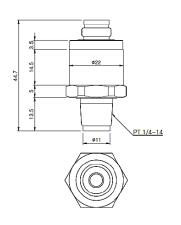


DIMENSIONS

Dimensions (mm)

M12*1.0P (C or CM types)





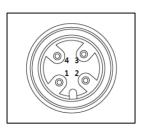
C. High pressure (-1 ~ 1, 3, 10...1000bar)





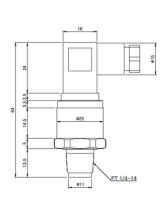
CM. Low pressure (-1 ~ 0.1...1bar)

ELECTRONICAL CONNECTIONS

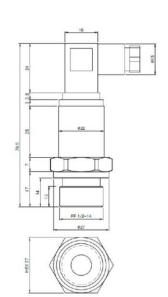


Ouput signal	Current	Voltage
1	Power(+)	Power(+)
2	NC	Output
3	Power(-)	GND
4	NC	NC

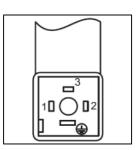
DIN43650-C (D or DM types)



D. High pressure (-1 ~ 1, 3, 10...1000bar)



DM. Low pressure (-1 ~ 0.1...1bar)

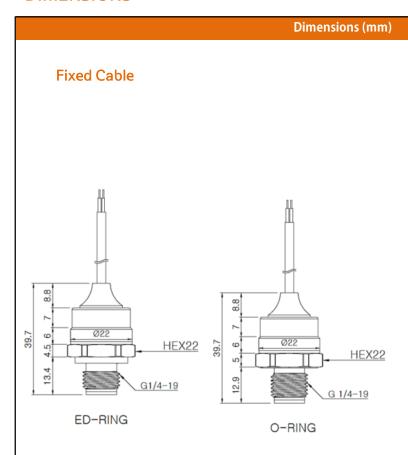


Ouput signal	Current	Voltage
1	Power(+)	Power(+)
2	Power(-)	GND
3	NC	Output
PE	(

[Analog output Type]



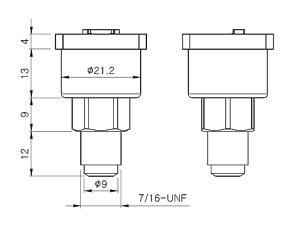
DIMENSIONS



ELECTRONICAL CONNECTIONS

Ouput signal	Current	Voltage
RED	Power(+)	Power(+)
GREEN	NC	Output
BLACK	Power(-)	GND

Fixed Harness



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

[Analog output Type]

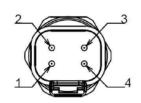


DIMENSIONS

Dimensions (mm) Deutsch DT04-4P Deutsch DT04-4P Deutsch DT04-4P Deutsch DT04-4P

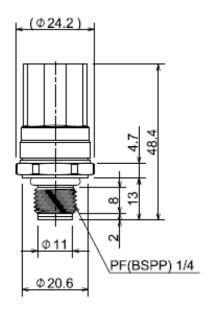
Snubber Ø0.4

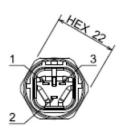
ELECTRONICAL CONNECTIONS



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

HW090 6181-0072

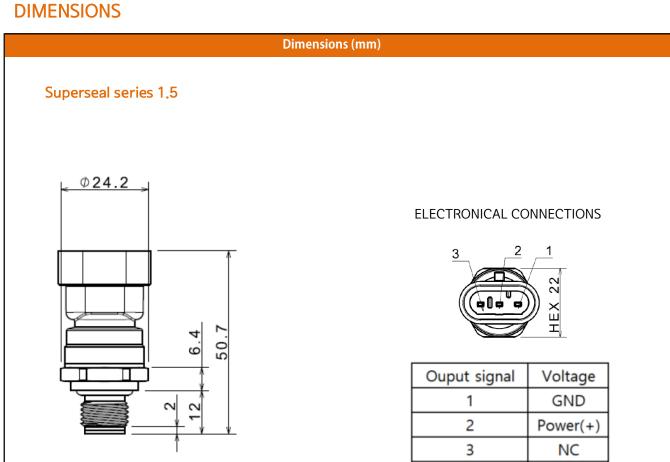




Ouput signal	Voltage
1	GND
2	Output
3	Power(+)

[Analog output Type]





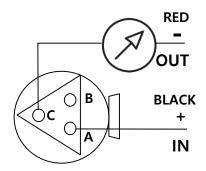
4

Output

[Analog output Type]

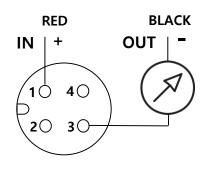


Current Output(2-Wire)



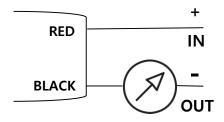
A(IN) C(OUT)

Deutsch DT04-03P



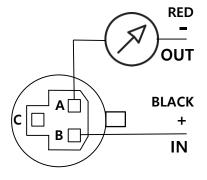
1(IN) 3(OUT)

M12*1.0P



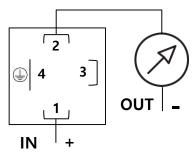
RED(IN) BLACK(OUT)

Fixed Cable



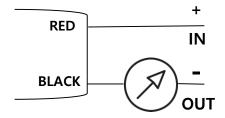
B(IN) A(OUT)

Packard



1(IN) 2(OUT)

DIN43650C



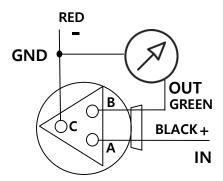
RED(IN) BLACK(OUT)

Fixed Harness

[Analog output Type]

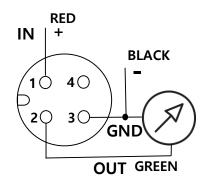


Voltage Output (3-Wire)



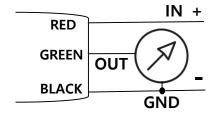
A(IN) B(OUT) C(GND)

Deutsch DT04-03P



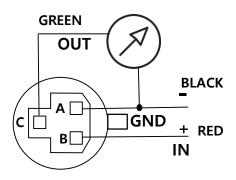
1(IN) 2(OUT) 3(GND)

M12*1.0P



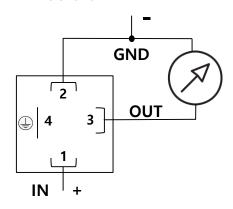
RED(IN) GREEN(OUT) BLACK(GND)

Fixed Cable



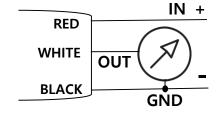
B(IN) C(OUT) A(GND)

Packard



1(IN) 3(OUT) 2(GND)

DIN43650C



RED(IN) WHITE(OUT) BLACK(GND)

Fixed Harness

[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 or CM)
D	DIN43650C (D or DM)
Е	Fixed Cable
F	Deutsch DT04-4P
G	HW090 6181-0072
Н	Superseal series 1.5
I	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. 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	
E	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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Factory: 236, Jubuto-ro, Bupyeong-gu, Incheon, Republic of Korea, 21330

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