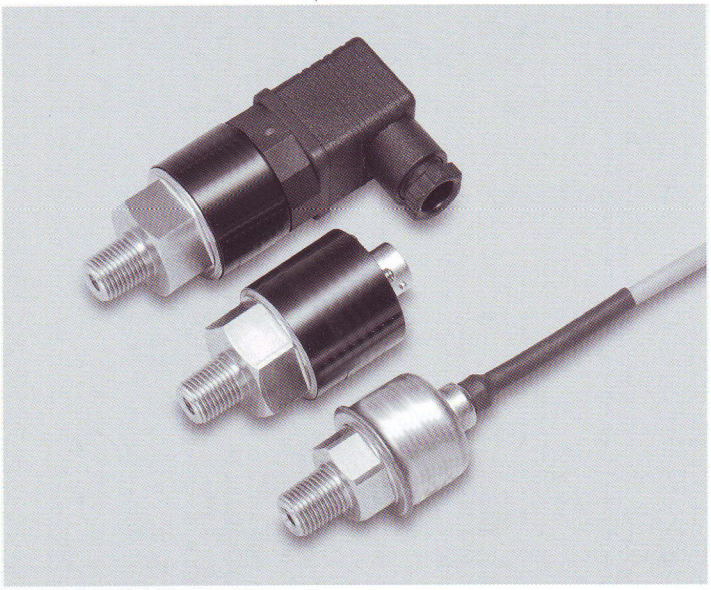
Series QTH

Low Pressure Transducer



QTH model, the sensing element, is suitable for low pressure measurement below 10kgf/cm^2 by applying the piezoresistive cells. It is applied to non-corrosion gas measurement such as the air, LNG, and LPG at a low cost.

Feature

- Built-in amplifier circuit(VDC, mA)
- Measuring range - 76OmmHg-10kgf/cm^{2}g
- O.5%FS accuracy
- Piezoresistive silicon cell
- Use with non-corrosive, non-ionic medi

Applications

- Gas leak detection
- Gas monitoring
- Gas oil process control
- Vacuum system

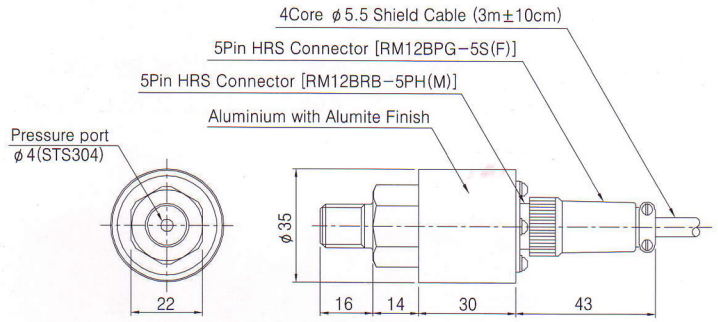
SPECIFICATIONS

Range	
	-760mmHg~0,0.1,0.5,1,2,5,7,10kgf/cm^2
Performance	
Accuracy	±0.5%FS
Linearity	±0.35%FS
Hysteresis	±0.15%FS
Repeatability	±0.15%FS
Thermal Effect on Zero	±0.06%FS/℃
Thermal Effect on Span	±0.06%FS/℃
Compensated Temperature Range	-10~70℃
Operating Temperature Range	-20~80℃
Electrical	
Exitation	11 ~ 28VDC
Output	1~5VDC, 4~20mA(2Wire)
Electrical Connection	Connector, Cable, Head, Din Connector
Physical	
Proof Pressure	150%FS Max.
Burst Pressure	200%FS Min.
Vibration	49.1m/s^2{5G}, 10~500Hz
Shock	490m/s^2{50G}
Pressure Port	PT1/8", PF1/8", PT1/4", PF1/4", PT3/8", PF3/8"
Media-Wetted Materials	Stainless Steel 304, SiO_2, NBR
Weight	Connector type : Approx. 110g (Sensor Only)

* Specifications are subject to change without notice

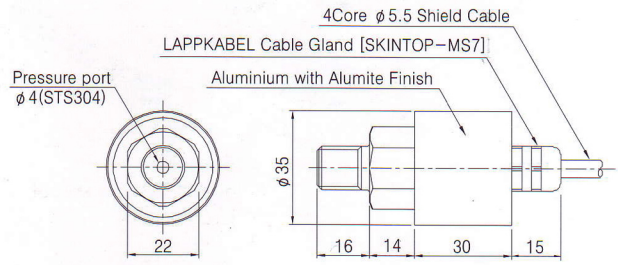
Dimension

▶Connector Type



Pin No.	Wire Color	Connections		
		4Wire	3Wire	2Wire
1	Red	Input ⊕	Input ⊕	Input ⊕
2	White	Output ⊖	Common ⊖	×
3	Black	Input ⊖	×	Output ⊕
4	Green	Output ⊕	Output ⊕	×
5	Shield	Ground	Ground	Ground

▶Cable Gland Type



Pin No.	Wire Color	Connections		
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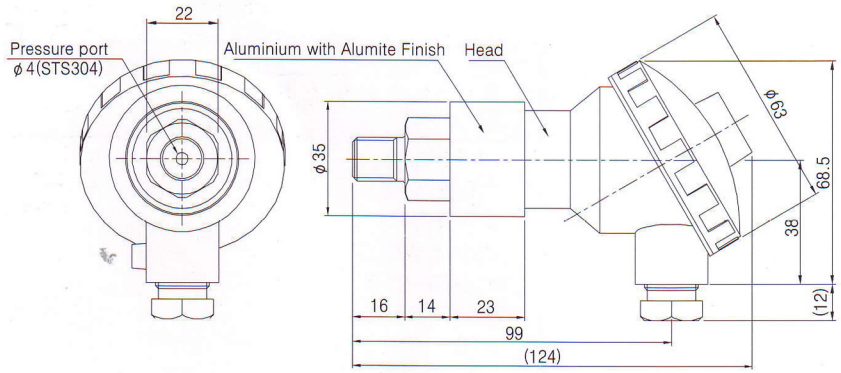
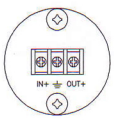
1	Red	Input ⊕	Input ⊕	Input ⊕
2	White	Output ⊖	Common ⊖	×
3	Black	Input ⊖	×	Output ⊕
4	Green	Output ⊕	Output ⊕	×
5	Shield	Ground	Ground	Ground

▶Head Type

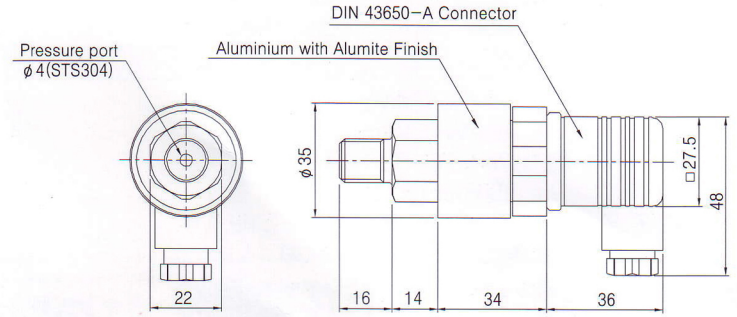




Terminal

No.	Connections
	2Wire
1	Input ⊕
2	Earth
3	Output ⊕

▶Din Connector Type



Terminal

Pin No.	Connections	
	3Wire	2Wire
1	Input ⊕	Input ⊕
2	Common ⊖	Output ⊕
3	Output ⊕	×
⏚	Earth	Earth

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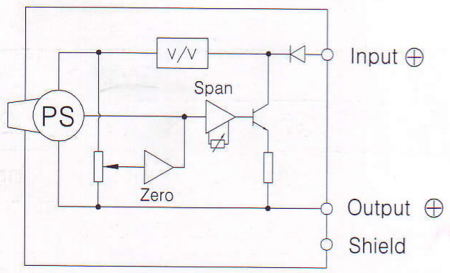
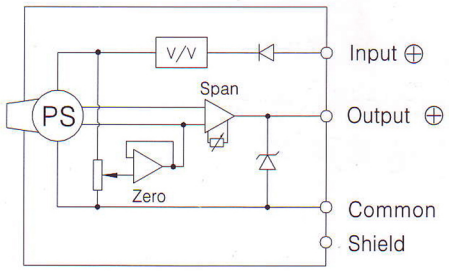
Internal Circuit Diagram

▶2Wire mA Output Type



▶3, 4Wire VDC Output Type



Ordering Information

QTH E 0001 K A A A

Model Name

Output
- D : 4Wire 1~5V
- E : 3Wire 1~5V
- H : 2Wire 4~20mA

Pressure Range
- −760 : 0~−760mmHg
- 00.1 : 0~0.1kgf/㎠
- 00.5 : 0~0.5kgf/㎠
- 0001 : 0~1kgf/㎠
- 0002 : 0~2kgf/㎠
- 0005 : 0~5kgf/㎠
- 0007 : 0~7kgf/㎠
- 0010 : 0~10kgf/㎠

Option
- A : Normal

Connecting Methods
- A : Connector
- B : Water proof connector
- S : Cable Gland
- H : Head
- I : Din 43650−A Connector

Pressure port
- A : PT3/8"
- B : PF3/8"
- C : PT1/4"
- D : PF1/4"
- G : PT1/8"
- H : PF1/8"

Pressure Unit
- K : kgf/㎠
- P : psi
- H : mmHg
- B : bar
- M : MPa
- C : cmH_2O

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