



## Series QUC

General Purpose Pressure Transducer



QUC model has applied Silicon Piezoresistive cell, which attached High Temperature Glass on Titanium. Its low price makes it suitable for industrial uses. With its various outputs, it may be interfaced with various controllers.

### Feature

- CE Certified
- Built-in amplifier Circuit(VDC, mA)
- Measuring range -100kPa~10MPa
- 0.5%FS accuracy
- Piezoresistive silicon cell
- Zero, Span Adjustable
- Stainless steel, Titanium, EPDM media-wetted materials

### Applications

- Process control
- Hydraulics & Pneumatic
- Compressor Control
- Chillers
- Refrigeration Equipment

## SPECIFICATIONS

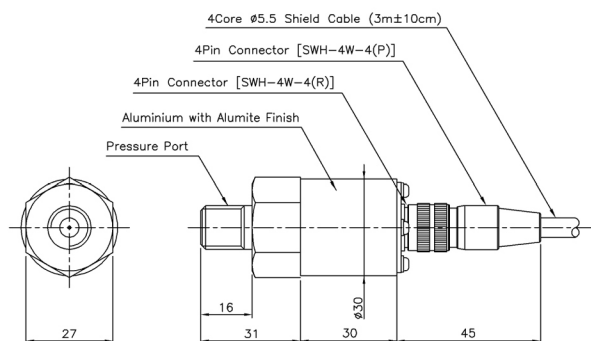
| Range                                                  |                                                                  |
|--------------------------------------------------------|------------------------------------------------------------------|
| 0 ~ 100, 200, 600kPa / 1, 2, 3, 5, 10MPa (Gauge)       |                                                                  |
| -100 ~ 0, 100, 200, 600kPa / 1, 2, 3, 5, 10MPa (Gauge) |                                                                  |
| Performance                                            |                                                                  |
| Accuracy                                               | ±0.5%FS(RSS)                                                     |
| Thermal Effect on Zero                                 | ±0.05%FS/°C                                                      |
| Thermal Effect on Span                                 | ±0.05%FS/°C                                                      |
| Compensated Temperature Range                          | -10 ~ 70°C                                                       |
| Operating Temperature Range                            | -20 ~ 80°C                                                       |
| Electrical                                             |                                                                  |
| Excitation                                             | 11 ~ 28VDC(PTBA 12VDC Max.)                                      |
| Output                                                 | 10~20mV/V(600kPa~10MPa Only)                                     |
|                                                        | 0~5VDC, 1~5VDC, 0~10VDC(3, 4Wire), 4~20mA(2, 3 Wire)             |
| Electrical Connection                                  | Connector, Head, Din Connector                                   |
| Physical                                               |                                                                  |
| Proof Pressure                                         | 150%FS Max.                                                      |
| Burst Pressure                                         | 200%FS Min.                                                      |
| Vibration                                              | 49.1m/s <sup>2</sup> {5G}, 10~500Hz                              |
| Shock                                                  | 490m/s <sup>2</sup> {50G}                                        |
| Pressure Port                                          | R(PT)1/8", G(PF)1/8", R(PT)1/4", G(PF)1/4", R(PT)3/8", G(PF)3/8" |
| Media-Wetted Materials                                 | Stainless Steel 304, Titanium 87%, O-ring : EPDM(Optional VITON) |
| Weight                                                 | Connector type : Approx. 140g (Sensor Only)                      |

\* Specifications are subject to change without notice

WZO CONTROLS LTD

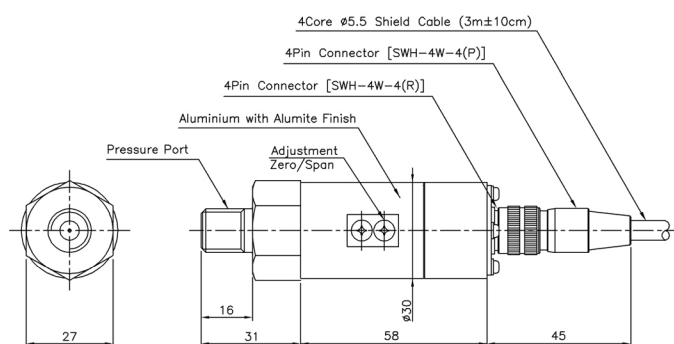
## Dimension

### ► mV Output Connector Type



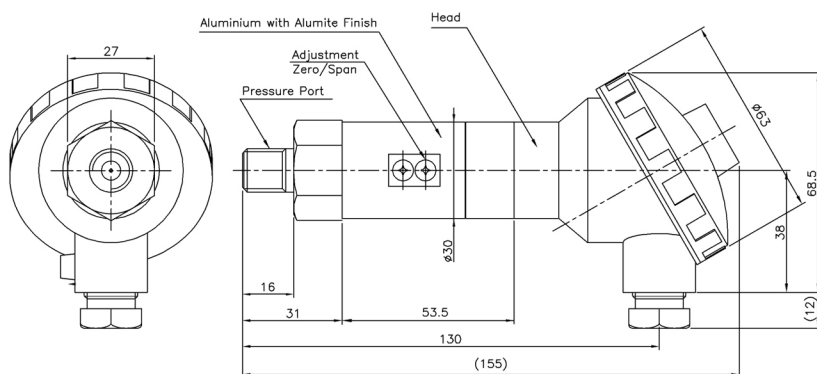
| Pin No. | Connections |
|---------|-------------|
| 1       | Input ⊕     |
| 2       | Output ⊖    |
| 3       | Input ⊖     |
| 4       | Output ⊕    |
| 5       | Earth       |

### ► Connector Type



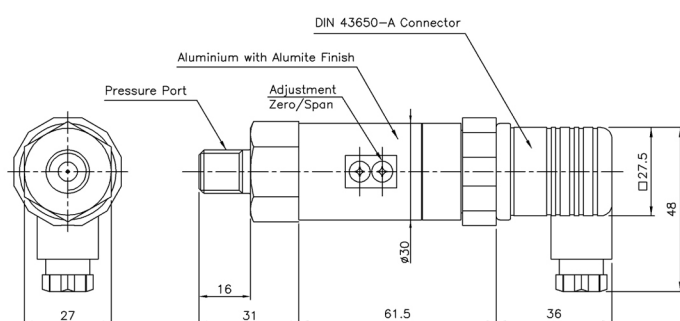
| Pin No. | Wire Color | Connections |          |          |
|---------|------------|-------------|----------|----------|
|         |            | 4Wire       | 3Wire    | 2Wire    |
| 1       | Red        | Input ⊕     | Input ⊕  | Input ⊕  |
| 2       | White      | Output ⊖    | Common ⊖ | ×     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

### ► Head Type



| No. | Connections |  |
|-----|-------------|--|
|     | 2Wire       |  |
| +   | Input ⊕     |  |
| ⊕   | Earth       |  |
| -   | Output ⊕    |  |

### ► Din connector Type



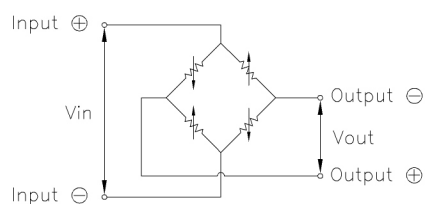
| Pin No. | Connections |          |
|---------|-------------|----------|
|         | 3Wire       | 2Wire    |
| 1       | Input ⊕     | Input ⊕  |
| 2       | Common ⊖    | Output ⊕ |
| 3       | Output ⊕    | ×        |
| ⊕       | Earth       | Earth    |

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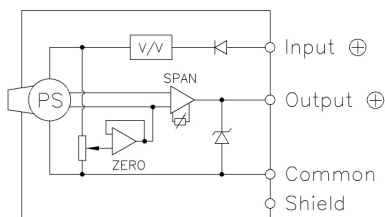


## Internal Circuit Diagram

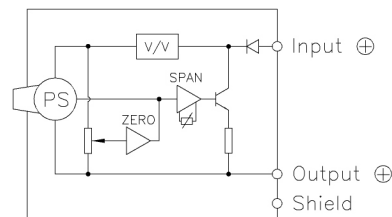
### ► mV Output Type



### ► 2Wire mA Output Type



### ► 3, 4Wire VDC Output Type



## Ordering Information

| Model Name               | QUC | B | 0010 | K | A | P | A | Option                    |
|--------------------------|-----|---|------|---|---|---|---|---------------------------|
| Output                   |     |   |      |   |   |   |   | A : Normal                |
| A : mV/V                 |     |   |      |   |   |   |   |                           |
| B : 4Wire 0~5V           |     |   |      |   |   |   |   |                           |
| C : 3Wire 0~5V           |     |   |      |   |   |   |   |                           |
| D : 4Wire 1~5V           |     |   |      |   |   |   |   |                           |
| E : 3Wire 1~5V           |     |   |      |   |   |   |   |                           |
| F : 4Wire 4~20mA         |     |   |      |   |   |   |   |                           |
| G : 3Wire 4~20mA         |     |   |      |   |   |   |   |                           |
| H : 2Wire 4~20mA         |     |   |      |   |   |   |   |                           |
| J : 3Wire 0~10V          |     |   |      |   |   |   |   |                           |
| K : 4Wire 0~10V          |     |   |      |   |   |   |   |                           |
| Pressure Range           |     |   |      |   |   |   |   |                           |
| XXXX : Pressure          |     |   |      |   |   |   |   |                           |
| CXXX : Compound Pressure |     |   |      |   |   |   |   |                           |
|                          |     |   |      |   |   |   |   | Connecting Metmods        |
|                          |     |   |      |   |   |   |   | P : Connector             |
|                          |     |   |      |   |   |   |   | H : Head                  |
|                          |     |   |      |   |   |   |   | I : Din 43650-A connector |
|                          |     |   |      |   |   |   |   | Pressure port             |
|                          |     |   |      |   |   |   |   | A : R(PT)3/8"             |
|                          |     |   |      |   |   |   |   | D : G(PF)1/4"             |
|                          |     |   |      |   |   |   |   | B : G(PF)3/8"             |
|                          |     |   |      |   |   |   |   | E : R(PT)1/2"             |
|                          |     |   |      |   |   |   |   | C : R(PT)1/4"             |
|                          |     |   |      |   |   |   |   | Q : G(PF)1/2"             |
|                          |     |   |      |   |   |   |   | Pressure Unit             |
|                          |     |   |      |   |   |   |   | R : kPa                   |
|                          |     |   |      |   |   |   |   | M : MPa                   |
|                          |     |   |      |   |   |   |   | B : bar                   |
|                          |     |   |      |   |   |   |   | K : kgf/cm <sup>2</sup>   |
|                          |     |   |      |   |   |   |   | P : psi                   |
|                          |     |   |      |   |   |   |   | H : mmHg                  |