From the very beginning Caldaro has managed to establish itself as a highly reputable OEM supplier of tailored controller and sensor solutions for highly demanding industrial clients worldwide.

The philosophy of our business is quite simple: What we discovered yesterday is history, the best part is yet to come.

Which means that our goal is to never, ever lay back satisfied with what we have achieved. No, we shall always look ahead. To meet future demands, to find better solutions and to increase our partners’ competitiveness. That’s our promise to the market.

With our long experience we will contribute to our partners business. We work hard at being considered the obvious choice in our markets.

Caldaro’s expertise and know-how and our product offer are continuously developed in close cooperation with our customers. Our reputation as an OEM supplier has been established by several well-known multinational corporations that have given us the title ‘Supplier of the Year’. Our products are used in equipment and machinery that have received industrial awards in various parts of the world.

Our offices are situated in Sweden, the United Kingdom and Germany.

The Caldaro pressure sensor series are based on a media-compatible technology designed for highly efficient manufacturing. The complete mechanical as well as electrical design is suited for perfect operation in an extended temperature range for various industrial and off-highway applications. The calibration of the sensor is performed by using state-of-the-art, highly productive electronic trimming technology and efficient calibration systems.

The stainless steel pressure port of the sensors is resistant to aggressive media, such as oil, fuel, diesel, waste water and other aggressive liquids. The product meets all typical reliability and quality requirements needed by the OEM’s at various industrial fields.

Sensor Models – Index

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**S601 series**
A robust sensor model suitable for hydraulics and heavy duty industry. Manage pressure from 2 up to 2,200 Bar. To be mounted with a Hex #27 mm tool.

**S602 series**
A compact sensor model suitable for the most advanced applications. Pressure range from 8 to 350 Bar. The sensor mounts with a Hex #24 mm tool.

**S603 series**
A flexible sensor series that easily can be tailored to the OEM needs regarding electrical specifications. The pressure range goes from -1 Bar to 2,200 Bar and the sensor is mounted with a Hex #22 mm tool.

**S604 series**
Our sensor series that can offer most options. In addition to our standard stainless steel pressure port it also has the housing in stainless steel in protection for aggressive environment. The sensors have a pressure range from 4 to 600 Bar and higher on demand. They mount with a Hex #27 mm tool.

**S605 series**
Our smallest pressure sensor series that manage most of the off-road and industrial OEM needs. Has a pressure range of 6 to 250 Bar and is mounted with a Hex #19 mm tool.

**S606 series**
A pressure sensor that can be integrated in your systems by soldering on to PCB. It has a very small package size and the pressure interface will be suited to your application. The pressure range is 6 Bar to 250 Bar but higher can be obtained upon request.
Pressure reference
Depending on the pressure sensors’ performance and specifications we have three options on how we mount the sensor membrane towards the measures pressure media.

Gage type: Sensor reference side (inside) has an opening to the environment, in order to enable undisturbed reference to ambient pressure (REALLY relative to ambient air pressure). Depending on model this type is used up to ~100 bar.

Sealed Reference type: Sensor reference side (inside) is closed (sealed) to environment, but not evacuated – better environmental sealing of sensor (VIRTUALLY relative to ambient air pressure)

Absolute Pressure Sensor: Sensor reference side (inside) is closed (sealed) to environment, and evacuated until vacuum – reference is 0 bar pressure ("absolute")

Sensor membrane
At the moment most of our Pressure sensors are equipped with stainless steel sensor membrane with thin-film technology for best possible performance. We also have a few models with ceramic sensor membrane for more cost-effective solutions.

Output types
Depending on our models we are able to supply you with different electrical outputs such as Voltage (ratiometric and non ratiometric), 4-20mA, PWM, CAN or other digital outputs. If you do not find what you are looking for, please consult our staff. We will do our best to fulfill your requests.

Built-in safety circuit
Our sensors have a built-in safety circuit but this feature might vary depending on the sensor type. The various protection we currently implement are Open supply, Open ground, Over voltage at Vs/Gnd, reverse polarity, short between Gnd and supply as well as Output short.

Calibration
All of the pressure sensors are individually calibrated and compensated by ASIC technology. The parameters we consider are Offset (calibration), Span (calibration), TC offset (compensation) and the TC (compensation).

Pressure load
Our different pressure sensors can, depending on the models, manage load up to 2.200 Bar. However please note following values when designing your system;

Over Pressure: 1,2 to 2 times the nominal pressure
Burst Pressure: 1,5 to 3 times the nominal pressure

Current consumption
Max 20mA, please consult our staff if you need a more accurate value.

Lifetime
The sensors lifetime very much depends on the application but our sensor elements will manage at least 10 million pressure cycles (app. equal to 7,000 working hours).

Drift over Lifetime
Although our sensors are very stable the output will change slightly over the years in service by this formula, 0,1% of FS (Full Scale) per year.

ESD
Most of our sensors are tested and will manage 8kV on pins and 15kV on housing according to ISO/TR 10605.

EMC
Most of our sensors are tested according to ISO 11452-5 in the range of 1MHz to 1GHz but might vary depending on the model. Please consult our staff for further details if necessary

Error
The stated Error value on each model is valid in the temperature span 0°C to + 90°C and includes repeatability, hysteresis, non-linearity, calibration and temperature effects. For a wider temperature span as -40°C to 135°C, please see the below diagram. As shown there, the error will increase by factor 2 outside the 0°C to 90°C. For higher accuracy versions, please contact Caldaro.

Sealing
All of our standard sensors will at least manage IP67. We can also, according to IEC 60529, in most cases also deliver units according to IP69K upon request.

Mounting
Depending on the sensor model please use correct hex tools for each model and do not apply more than 10Nm (max 14 Nm) in order to avoid faulty signals.
### Nomenclature

<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Model</td>
<td>Example S605B, Z in front of nonstandard</td>
</tr>
<tr>
<td>2. Pressure reference</td>
<td>A = Absolut, G = Gauge, S = Sealed reference, B = Switch versions</td>
</tr>
<tr>
<td>3. Full scale pressure</td>
<td>Expressed in pressure unit, First 2 digits represent figures, Third digit specifies No. of zeros (use 9 for 1 to 9.9 and 8 for 0.5 to 0.99)</td>
</tr>
<tr>
<td>4. Pressure unit</td>
<td>A = bar, B = psi, C = kpa, D = mm H2O, E = mm Hg, F = in. Hg, G = in. H2O, H = mBar</td>
</tr>
<tr>
<td>5. Option</td>
<td>S = Standard, P = Precision class 0.3</td>
</tr>
<tr>
<td>6. Hex size</td>
<td>1 = 27 mm, 2 = 24 mm, 3 = 22 mm, 4 = 20 mm, 5 = 19 mm, 6 = 16 mm, P = PCB</td>
</tr>
<tr>
<td>7. Mounting thread</td>
<td>1 = M10 x 1.0 (DIN 3852), 2 = G 1/4 (DIN 3852), 3 = M14 x 1.5, 4 = 1/8 NPT, 5 = M12 x 1.5, Z = Special</td>
</tr>
<tr>
<td>8. Connection</td>
<td>Code = Metri-Pack 150, D = Kompakt 1.1a (Code 2), E = Sicma, F = Arbeitskreisstecker, G = MOS (Code B), H = 712, I = Lead wire, J = M12, K = PCB terminal, L = DT, Z = Other connectors</td>
</tr>
<tr>
<td>Code</td>
<td>Series</td>
</tr>
<tr>
<td>A</td>
<td>Metri-Pack 150</td>
</tr>
<tr>
<td>D</td>
<td>Kompakt 1.1a (Code 2)</td>
</tr>
<tr>
<td>E</td>
<td>Sicma</td>
</tr>
<tr>
<td>F</td>
<td>Arbeitskreisstecker</td>
</tr>
<tr>
<td>G</td>
<td>MOS (Code B)</td>
</tr>
<tr>
<td>H</td>
<td>712</td>
</tr>
<tr>
<td>I</td>
<td>Lead wire</td>
</tr>
<tr>
<td>J</td>
<td>M12</td>
</tr>
<tr>
<td>K</td>
<td>PCB terminal</td>
</tr>
<tr>
<td>L</td>
<td>DT</td>
</tr>
<tr>
<td>Z</td>
<td>Other connectors</td>
</tr>
<tr>
<td>Brand</td>
<td>Connected Part</td>
</tr>
<tr>
<td>Delphi</td>
<td>12110293</td>
</tr>
<tr>
<td>Bosch</td>
<td>1-928-403-968</td>
</tr>
<tr>
<td>FCI</td>
<td>210-PC0325-0016</td>
</tr>
<tr>
<td>Herth+Buss</td>
<td>50290932</td>
</tr>
<tr>
<td>Tyco-AMP</td>
<td>2-967642-1</td>
</tr>
<tr>
<td>Binder</td>
<td>99-0406-00-03</td>
</tr>
<tr>
<td>N/A</td>
<td>TBA</td>
</tr>
<tr>
<td>Hirschmann</td>
<td>933-170-100</td>
</tr>
<tr>
<td>Deutsch</td>
<td>DT04-35</td>
</tr>
</tbody>
</table>

Note 1: This part number is only housing, please consult resp. brand for terminals etc.  
Note 2: A German automotive industry connector approx. equal to Task Force in english.
Requested specification form

Please fill out this form and return it to us.

Model number: _____________________________________________

Pressure reference: _________________________________________

Pressure range: ___________________________________________

Over pressure: _____________________________________________

Burst pressure: ____________________________________________

Pressure media: ___________________________________________

Pressure connection (Mounting thread): _________________________

Electrical output: __________________________________________

Connector type: ____________________________________________

Sealing: __________________________________________________

Temperature range (working): _________________________________

Application: ______________________________________________

Others of interest: __________________________________________

Company: _________________________________________________

Contact person: ___________________________________________

Address: __________________________________________________

Phone: _________________________    Fax: ____________________

E-mail: ___________________________________________________
**General Specifications**

<table>
<thead>
<tr>
<th></th>
<th>Type S601</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>2 – 2,200 bar</td>
</tr>
<tr>
<td>Pressure Type</td>
<td>Gage or Sealed Reference</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>5 V ±10%</td>
</tr>
<tr>
<td>Overvoltage Protection</td>
<td>-30 ~ +30 V</td>
</tr>
<tr>
<td>Current Supply</td>
<td>8 mA (max 16 mA)</td>
</tr>
<tr>
<td>Zero Pressure Output</td>
<td>0.10 x V_s</td>
</tr>
<tr>
<td>Full Scale Output</td>
<td>0.90 x V_s</td>
</tr>
<tr>
<td>Total Error</td>
<td>Typical ±1.0% ~ max ±1.5% FS</td>
</tr>
<tr>
<td>Overpressure Limitation (Clamp)</td>
<td>Max 0.94 x V_s</td>
</tr>
<tr>
<td>Output Ratiometricity</td>
<td>0.9 ~ 1.1 % / 1 % change of V_s</td>
</tr>
<tr>
<td>Response Time</td>
<td>1.5 ms</td>
</tr>
<tr>
<td>Load Resistance</td>
<td>2.2 – 50 kΩ</td>
</tr>
<tr>
<td>Load Capacitance</td>
<td>Max 0.05 μF</td>
</tr>
<tr>
<td>Output Source Current</td>
<td>0.2 mA</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>Min 10 MΩ</td>
</tr>
<tr>
<td>EMC</td>
<td>200 V/m</td>
</tr>
<tr>
<td>Thread</td>
<td>M10 x 1, M12 x 1.5, M14 x 1.5, G 1/4, 1/8 NPT</td>
</tr>
<tr>
<td>Connector Type</td>
<td>Metri-Pack, Sicma, Kompakt (Code 2), Task Force</td>
</tr>
<tr>
<td>Weight</td>
<td>60 g</td>
</tr>
</tbody>
</table>

**Environmental Specifications**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>-40 ~ +140 °C</td>
</tr>
<tr>
<td>Shock</td>
<td>50 g</td>
</tr>
<tr>
<td>Vibration</td>
<td>20 g (10 ~ 2,000 Hz)</td>
</tr>
<tr>
<td>Sealing (when connected)</td>
<td>IP67 (G) – IP69 (SL)</td>
</tr>
</tbody>
</table>

**Special Specification Examples**

- Other Threads.
- Other Connections
### General Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Type S601A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>100 mbar – 50 bar</td>
</tr>
<tr>
<td>Pressure Type</td>
<td>Absolute Pressure</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>5 V ±10%</td>
</tr>
<tr>
<td>Overvoltage Protection</td>
<td>-30 ~ +30 V</td>
</tr>
<tr>
<td>Current Supply</td>
<td>8 mA (max 16 mA)</td>
</tr>
<tr>
<td>Zero Pressure Output</td>
<td>0.10 x $V_s$</td>
</tr>
<tr>
<td>Full Scale Output</td>
<td>0.90 x $V_s$</td>
</tr>
<tr>
<td>Total Error</td>
<td>Typical ±1.0% ~ max ±1.5 % FS</td>
</tr>
<tr>
<td>Overpressure Limitation (Clamp)</td>
<td>Max 0.94 x $V_s$</td>
</tr>
<tr>
<td>Output Ratiometricity</td>
<td>0.9 ~ 1.1 % / 1 % change of $V_s$</td>
</tr>
<tr>
<td>Response Time</td>
<td>1.5 ms</td>
</tr>
<tr>
<td>Load Resistance</td>
<td>2.2 ~ 50 kΩ</td>
</tr>
<tr>
<td>Load Capacitance</td>
<td>Max 0.05 µF</td>
</tr>
<tr>
<td>Output Source Current</td>
<td>0.2 mA</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>Min 10 MΩ</td>
</tr>
<tr>
<td>EMC</td>
<td>200 V/m</td>
</tr>
<tr>
<td>Thread</td>
<td>M10 x 1, G 1/4, 1/8 NPT</td>
</tr>
<tr>
<td>Connector Type</td>
<td>Metri-Pack, Sicma, Kompakt (Code 2), Task Force</td>
</tr>
<tr>
<td>Weight</td>
<td>60 g</td>
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### Environmental Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>-40 ~ +125°C</td>
</tr>
<tr>
<td>Shock</td>
<td>50 g</td>
</tr>
<tr>
<td>Vibration</td>
<td>20 g (10 ~ 2,000 Hz)</td>
</tr>
<tr>
<td>Sealing (when connected)</td>
<td>IP69</td>
</tr>
</tbody>
</table>

### Special Specification Examples

- Other Threads.
- Other Connections

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Contact:
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- Germany: +49 (0)6136 760 56 00
### General Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Type S602A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>12 bar – 350 bar</td>
</tr>
<tr>
<td>Pressure Type</td>
<td>Gage or Sealed Reference</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>5 V ±10%</td>
</tr>
<tr>
<td>Overvoltage Protection</td>
<td>-30 ~ +30 V</td>
</tr>
<tr>
<td>Current Supply</td>
<td>8 mA (max 16 mA)</td>
</tr>
<tr>
<td>Zero Pressure Output</td>
<td>0.10 x V_S</td>
</tr>
<tr>
<td>Full Scale Output</td>
<td>0.90 x V_S</td>
</tr>
<tr>
<td>Total Error</td>
<td>Typical ±1.0% ~ max ±1.5 % FS</td>
</tr>
<tr>
<td>Overpressure Limitation (Clamp)</td>
<td>Max 0.94 x V_S</td>
</tr>
<tr>
<td>Output Ratiometricity</td>
<td>0.9 ~ 1.1 % / 1 % change of V_S</td>
</tr>
<tr>
<td>Response Time</td>
<td>1.5 ms</td>
</tr>
<tr>
<td>Load Resistance</td>
<td>2.2 – 50 kΩ</td>
</tr>
<tr>
<td>Load Capacitance</td>
<td>Max 0.05 µF</td>
</tr>
<tr>
<td>Output Source Current</td>
<td>0.4 mA</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>Min 10 MΩ</td>
</tr>
<tr>
<td>EMC</td>
<td>200 V/m</td>
</tr>
<tr>
<td>Thread</td>
<td>M10 x 1, M10 x 1 (conical), G 1/4</td>
</tr>
<tr>
<td>Connector Type</td>
<td>Kompakt (Code 2), Task Force, MQS</td>
</tr>
<tr>
<td>Weight</td>
<td>50 g</td>
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### Environmental Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>-40 ~ +125°C</td>
</tr>
<tr>
<td>Shock</td>
<td>50 g</td>
</tr>
<tr>
<td>Vibration</td>
<td>20 g (10 ~ 2,000 Hz)</td>
</tr>
<tr>
<td>Sealing (when connected)</td>
<td>IP67 (G) – IP69 (SL)</td>
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</tbody>
</table>

### Special Specification Examples

- Other Threads.
- Other Connections
**General Specifications**

<table>
<thead>
<tr>
<th>Type S602B</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>50 bar – 350 bar</td>
</tr>
<tr>
<td>Pressure Type</td>
<td>Gage or Sealed Reference</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>5 V ±10%</td>
</tr>
<tr>
<td>Overvoltage Protection</td>
<td>-30 ~ +30 V</td>
</tr>
<tr>
<td>Current Supply</td>
<td>8 mA (max 16 mA)</td>
</tr>
<tr>
<td>Zero Pressure Output</td>
<td>0.12 x $V_s$</td>
</tr>
<tr>
<td>Full Scale Output</td>
<td>0.90 x $V_s$</td>
</tr>
<tr>
<td>Total Error</td>
<td>Typical ±1.0% ~ max ±1.5 % FS</td>
</tr>
<tr>
<td>Overpressure Limitation (Clamp)</td>
<td>Max 0.92 x $V_s$</td>
</tr>
<tr>
<td>Output Ratiometricity</td>
<td>0.9 ~ 1.1 % / 1 % change of $V_s$</td>
</tr>
<tr>
<td>Response Time</td>
<td>1.5 ms</td>
</tr>
<tr>
<td>Load Resistance</td>
<td>2 – 50 kΩ</td>
</tr>
<tr>
<td>Load Capacitance</td>
<td>Max 0.05 μF</td>
</tr>
<tr>
<td>Output Source Current</td>
<td>0.2 mA</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>Min 10 MΩ</td>
</tr>
<tr>
<td>EMC</td>
<td>200 V/m</td>
</tr>
<tr>
<td>Thread</td>
<td>M10 x 1, M10 x 1 (conical), G 1/4</td>
</tr>
<tr>
<td>Connector Type</td>
<td>Kompakt (Code 2), Task Force, MQS</td>
</tr>
<tr>
<td>Weight</td>
<td>50 g</td>
</tr>
</tbody>
</table>

**Environmental Specifications**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>-40 ~ +125°C</td>
</tr>
<tr>
<td>Shock</td>
<td>50 g</td>
</tr>
<tr>
<td>Vibration</td>
<td>20 g (10 ~ 2,000 Hz)</td>
</tr>
<tr>
<td>Sealing (when connected)</td>
<td>IP67 (G) – IP69 (SL)</td>
</tr>
</tbody>
</table>

**Special Specification Examples**

- Other Threads.
- Other Connections
- Internal self diagnostics for offset and span drift

**Contact:**

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- United Kingdom 0800 169 7950
- Germany +49 (0)6136 760 56 00

Subject to change without prior notice. We refer to our general terms and conditions.
## Sensor Models

### S602C

- **2 bar – 50 bar**

### Terminal Connection Diagram

- Pin 1: Vin
- Pin 2: Output
- Pin 3: Gnd

### Standard Dimensions

<table>
<thead>
<tr>
<th>Pin</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Vin</td>
</tr>
<tr>
<td>2</td>
<td>Output</td>
</tr>
<tr>
<td>3</td>
<td>Gnd</td>
</tr>
</tbody>
</table>

### General Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type S602C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pressure Range</strong></td>
<td>2 bar – 50 bar, precision class 0.3</td>
</tr>
<tr>
<td><strong>Pressure Type</strong></td>
<td>Gage or Sealed Reference</td>
</tr>
<tr>
<td><strong>Supply Voltage</strong></td>
<td>5 V ± 10%</td>
</tr>
<tr>
<td><strong>Overvoltage Protection</strong></td>
<td>-30 ~ +30 V</td>
</tr>
<tr>
<td><strong>Current Supply</strong></td>
<td>8 mA (max 16 mA)</td>
</tr>
<tr>
<td><strong>Zero Pressure Output</strong></td>
<td>0.10 x V&lt;sub&gt;s&lt;/sub&gt;</td>
</tr>
<tr>
<td><strong>Full Scale Output</strong></td>
<td>0.90 x V&lt;sub&gt;s&lt;/sub&gt;</td>
</tr>
<tr>
<td><strong>Total Error</strong></td>
<td>Typical ±0.5% FS</td>
</tr>
<tr>
<td><strong>Overpressure Limitation (Clamp)</strong></td>
<td>Max 0.94 x V&lt;sub&gt;s&lt;/sub&gt;</td>
</tr>
<tr>
<td><strong>Output Ratiometricity</strong></td>
<td>0.9 ~ 1.1 % / 1 % change of V&lt;sub&gt;s&lt;/sub&gt;</td>
</tr>
<tr>
<td><strong>Response Time</strong></td>
<td>1.0 ms</td>
</tr>
<tr>
<td><strong>Load Resistance</strong></td>
<td>2 – 50 kΩ</td>
</tr>
<tr>
<td><strong>Load Capacitance</strong></td>
<td>Max 0.05 μF</td>
</tr>
<tr>
<td><strong>Output Source Current</strong></td>
<td>0.05 mA</td>
</tr>
<tr>
<td><strong>Insulation Resistance</strong></td>
<td>Min 10 MΩ</td>
</tr>
<tr>
<td><strong>EMC</strong></td>
<td>200 V/m</td>
</tr>
<tr>
<td><strong>Thread</strong></td>
<td>M10 x 1, M10 x 1 (conical), G 1/4</td>
</tr>
<tr>
<td><strong>Connector Type</strong></td>
<td>Kompakt (Code 2), Task Force, MQS</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>50 g</td>
</tr>
</tbody>
</table>

### Environmental Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating Temperature Range</strong></td>
<td>-40 ~ +125°C</td>
</tr>
<tr>
<td><strong>Shock</strong></td>
<td>50 g</td>
</tr>
<tr>
<td><strong>Vibration</strong></td>
<td>20 g (10 ~ 2,000 Hz)</td>
</tr>
<tr>
<td><strong>Sealing (when connected)</strong></td>
<td>IP67 (G) – IP69 (SL)</td>
</tr>
</tbody>
</table>

### Special Specification Examples

- Other Threads.
- Other Connections

---

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### General Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type S603A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>1 bar – 2,000 bar</td>
</tr>
<tr>
<td>Pressure Type</td>
<td>Gage or Sealed Reference</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>Min 8.0V – max 30.0V (-40°C - +85°C) • Min 8.0V – max 26.0V (-40°C - +125°C)</td>
</tr>
<tr>
<td>Overvoltage Protection</td>
<td>-30 ~ +30 V</td>
</tr>
<tr>
<td>Current Supply</td>
<td>8 mA (max 16 mA)</td>
</tr>
<tr>
<td>Zero Pressure Output</td>
<td>0.5 V</td>
</tr>
<tr>
<td>Full Scale Output</td>
<td>4.5 V</td>
</tr>
<tr>
<td>Total Error</td>
<td>Typical ±1.0% – max ±1.5 % FS</td>
</tr>
<tr>
<td>Overpressure Limitation (Clamp)</td>
<td>N/A</td>
</tr>
<tr>
<td>Output Ratiometricity</td>
<td>N/A</td>
</tr>
<tr>
<td>Response Time</td>
<td>1.0 ms</td>
</tr>
<tr>
<td>Load Resistance</td>
<td>5.0 kΩ</td>
</tr>
<tr>
<td>Load Capacitance</td>
<td>Max 0.05 μF</td>
</tr>
<tr>
<td>Output Source Current</td>
<td>1.1 mA</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>Min 10 MΩ</td>
</tr>
<tr>
<td>EMC</td>
<td>250 V/m</td>
</tr>
<tr>
<td>Thread</td>
<td>M10 x 1, G 1/4, M14 x 1,5 (for pressure &gt; 500 bar)</td>
</tr>
<tr>
<td>Connector Type</td>
<td>Metri-Pack, Kompakt (Code 1 &amp; 2), MQS, 712, Lead wire</td>
</tr>
<tr>
<td>Weight</td>
<td>60 g</td>
</tr>
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### Environmental Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>-40 ~ +125°C</td>
</tr>
<tr>
<td>Shock</td>
<td>30 g</td>
</tr>
<tr>
<td>Vibration</td>
<td>20 g (10 ~ 2,000 Hz)</td>
</tr>
<tr>
<td>Sealing (when connected)</td>
<td>IP67 (G) – IP69 (SL)</td>
</tr>
</tbody>
</table>

### Special Specification Examples

- Other Threads.
- Other Connections
- Other Output Values
- Non Ratiometricity Output

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**General Specifications**

<table>
<thead>
<tr>
<th>Type S603B</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>1 bar – 2,000 bar</td>
</tr>
<tr>
<td>Pressure Type</td>
<td>Gage or Sealed Reference</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>5 V ±10%</td>
</tr>
<tr>
<td>Overvoltage Protection</td>
<td>-30 ~ +30 V</td>
</tr>
<tr>
<td>Current Supply</td>
<td>8 mA (max 16 mA)</td>
</tr>
<tr>
<td>Zero Pressure Output</td>
<td>0.10 x V&lt;sub&gt;S&lt;/sub&gt;</td>
</tr>
<tr>
<td>Full Scale Output</td>
<td>0.90 x V&lt;sub&gt;S&lt;/sub&gt;</td>
</tr>
<tr>
<td>Total Error</td>
<td>Typical ±1.0% – max ±1.5 % FS</td>
</tr>
<tr>
<td>Overpressure Limitation (Clamp)</td>
<td>Max 0.94 x V&lt;sub&gt;S&lt;/sub&gt;</td>
</tr>
<tr>
<td>Output Ratiometricity</td>
<td>0.9 ~ 1.1 %</td>
</tr>
<tr>
<td>Response Time</td>
<td>1.0 ms</td>
</tr>
<tr>
<td>Load Resistance</td>
<td>2 – 50 kΩ</td>
</tr>
<tr>
<td>Load Capacitance</td>
<td>Max 0.05 µF</td>
</tr>
<tr>
<td>Output Source Current</td>
<td>4.0 mA</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>Min 10 MΩ</td>
</tr>
<tr>
<td>EMC</td>
<td>250 V/m</td>
</tr>
<tr>
<td>Thread</td>
<td>M10 x 1, G 1/4, M14 x 1,5 (for pressure &gt; 500 bar), 1/8 NPT</td>
</tr>
<tr>
<td>Connector Type</td>
<td>Metri-Pack, Kompakt (Code 1 &amp; 2), MQS, 712, Lead wire</td>
</tr>
<tr>
<td>Weight</td>
<td>60 g</td>
</tr>
</tbody>
</table>

**Environmental Specifications**

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
</tr>
<tr>
<td>Shock</td>
</tr>
<tr>
<td>Vibration</td>
</tr>
<tr>
<td>Sealing (when connected)</td>
</tr>
</tbody>
</table>

**Special Specification Examples**

- Other Threads.
- Other Connections
- Working temperature up to 140°C
**General Specifications**

<table>
<thead>
<tr>
<th>Type S603C</th>
<th>1 bar – 2,000 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>5 V ±10%</td>
</tr>
<tr>
<td>Pressure Type</td>
<td>Gage or Sealed Reference</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>-30 ~ +30 V</td>
</tr>
<tr>
<td>Overvoltage Protection</td>
<td>8 mA (max 16 mA)</td>
</tr>
<tr>
<td>Current Supply</td>
<td>0.12 x V_s</td>
</tr>
<tr>
<td>Zero Pressure Output</td>
<td>0.87 x V_s</td>
</tr>
<tr>
<td>Full Scale Output</td>
<td>Typical ±1.0% ~ max ±1.5 % FS</td>
</tr>
<tr>
<td>Total Error</td>
<td>Max 0.916 x V_s</td>
</tr>
<tr>
<td>Overpressure Limitation (Clamp)</td>
<td>0.9 ~ 1.1 %</td>
</tr>
<tr>
<td>Output Ratiometricity</td>
<td>1.0 ms</td>
</tr>
<tr>
<td>Response Time</td>
<td>0.2 mA</td>
</tr>
<tr>
<td>Load Resistance</td>
<td>2 – 50 kΩ</td>
</tr>
<tr>
<td>Load Capacitance</td>
<td>Max 0.05 µF</td>
</tr>
<tr>
<td>Output Source Current</td>
<td>Min 10 MΩ</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>250 V/m</td>
</tr>
<tr>
<td>EMC</td>
<td>M10 x 1, G 1/4, M14 x 1,5 (for pressure &gt; 500 bar), 1/8 NPT</td>
</tr>
<tr>
<td>Connector Type</td>
<td>Metri-Pack, Kompakt (Code 1 &amp; 2), 712, Lead wire</td>
</tr>
<tr>
<td>Weight</td>
<td>60 g</td>
</tr>
</tbody>
</table>

**Environmental Specifications**

| Operating Temperature Range | -40 ~ +125°C |
| Shock | 30 g |
| Vibration | 20 g (10 ~ 2,000 Hz) |
| Sealing (when connected) | IP67 (G) – IP69 (SL) |

**Special Specification Examples**

- Other Threads.
- Other Connections
- Other Output Values
- Non Ratiometricity Output
- Internal diagnostics for offset and span shift
**SENSOR MODELS**

**S604A**

**Standard Dimensions**

<table>
<thead>
<tr>
<th>Terminal Connection Diagram</th>
</tr>
</thead>
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<tr>
<td>Pin 3 (–)</td>
</tr>
<tr>
<td>Pin 2 (+)</td>
</tr>
<tr>
<td>Pin 1 (Gnd)</td>
</tr>
</tbody>
</table>

**Terminal Connection Diagram**

- **Pressure transmitter**
- **Input**
- **Output**

**General Specifications**

<table>
<thead>
<tr>
<th>Type S604A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
</tr>
<tr>
<td>Pressure Type</td>
</tr>
<tr>
<td>Supply Voltage</td>
</tr>
<tr>
<td>Overvoltage Protection</td>
</tr>
<tr>
<td>Current Supply</td>
</tr>
<tr>
<td>Zero Pressure Output</td>
</tr>
<tr>
<td>Full Scale Output</td>
</tr>
<tr>
<td>Total Error</td>
</tr>
<tr>
<td>Overpressure Limitation (Clamp)</td>
</tr>
<tr>
<td>Output Ratiometricity</td>
</tr>
<tr>
<td>Response Time</td>
</tr>
<tr>
<td>Load Resistance</td>
</tr>
<tr>
<td>Load Capacitance</td>
</tr>
<tr>
<td>Output Source Current</td>
</tr>
<tr>
<td>Insulation Resistance</td>
</tr>
<tr>
<td>EMC</td>
</tr>
<tr>
<td>Thread</td>
</tr>
<tr>
<td>Connector Type</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>

**Environmental Specifications**

| Operating Temperature Range | -40 ~ +125°C               |
| Shock                       | 100 g                      |
| Vibration                   | 20 g (10 ~ 2,000 Hz)       |
| Sealing (when connected)    | IP67 (G) – IP69 (SL)       |

**Special Specification Examples**

- Other Threads.
- Other Connections

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**SENSOR MODELS**

**S604B • S604C**

**Standard Dimensions**

4 bar – 600 bar

**Terminal Connection Diagram**

### Terminal Connection Diagram

- Pin 1: Gnd
- Pin 2: Output
- Pin 3: Vin

**General Specifications**

<table>
<thead>
<tr>
<th>Type S604B • S604C</th>
<th>Pressure Range</th>
<th>4 bar – 600 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Type</td>
<td>Gage or Sealed Reference</td>
<td></td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>S604B: Min 10V, max 30V</td>
<td>S604C: Min 12V, max 30V</td>
</tr>
<tr>
<td>Overvoltage Protection</td>
<td>-30 ~ +30 V</td>
<td></td>
</tr>
<tr>
<td>Current Supply</td>
<td>10 mA (max 12 mA)</td>
<td></td>
</tr>
<tr>
<td>Zero Pressure Output</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Full Scale Output</td>
<td>S604B: 5 V</td>
<td>S604C: 10 V</td>
</tr>
<tr>
<td>Total Error</td>
<td>Typical ±1.0% ~ max ±1.5 % FS</td>
<td></td>
</tr>
<tr>
<td>Overpressure Limitation (Clamp)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Output Ratiometricity</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Response Time</td>
<td>1.0 ms</td>
<td></td>
</tr>
<tr>
<td>Load Resistance</td>
<td>Min 1.25 kΩ</td>
<td></td>
</tr>
<tr>
<td>Load Capacitance</td>
<td>Max 0.05 µF</td>
<td></td>
</tr>
<tr>
<td>Output Source Current</td>
<td>4.0 mA</td>
<td></td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>Min 10 MΩ</td>
<td></td>
</tr>
<tr>
<td>EMC</td>
<td>20 V/m</td>
<td></td>
</tr>
<tr>
<td>Thread</td>
<td>M10 x 1, G 1/4, M14 x 1.5, M12 x 1.5</td>
<td></td>
</tr>
<tr>
<td>Connector Type</td>
<td>Metri-Pack, Kompakt (Code 2), MQS, M12, Lead wire</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>100 g</td>
<td></td>
</tr>
</tbody>
</table>

**Environmental Specifications**

<table>
<thead>
<tr>
<th></th>
<th>Operating Temperature Range</th>
<th>-40 ~ +125°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shock</td>
<td>100 g</td>
<td></td>
</tr>
<tr>
<td>Vibration</td>
<td>20 g (10 ~ 2,000 Hz)</td>
<td></td>
</tr>
<tr>
<td>Sealing (when connected)</td>
<td>IP67 (G) ~ IP69 (SL)</td>
<td></td>
</tr>
</tbody>
</table>

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Special Specification Examples

- Other Threads
- Other Connections
- Other output voltage range
### General Specifications

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<thead>
<tr>
<th>Type S604D</th>
<th>General Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>4 bar – 600 bar</td>
</tr>
<tr>
<td>Pressure Type</td>
<td>Gage or Sealed Reference</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>5 V ±10%</td>
</tr>
<tr>
<td>Overvoltage Protection</td>
<td>-30 ~ +30 V</td>
</tr>
<tr>
<td>Current Supply</td>
<td>8 mA (max 16 mA)</td>
</tr>
<tr>
<td>Zero Pressure Output</td>
<td>0.10 x $V_s$</td>
</tr>
<tr>
<td>Full Scale Output</td>
<td>0.90 x $V_s$</td>
</tr>
<tr>
<td>Total Error</td>
<td>Typical ±1.0% ~ max ±1.5 % FS</td>
</tr>
<tr>
<td>Overpressure Limitation (Clamp)</td>
<td>Max 0.94 x $V_s$</td>
</tr>
<tr>
<td>Output Ratiometricity</td>
<td>0.9 ~ 1.1 % / 1 % change of $V_s$</td>
</tr>
<tr>
<td>Response Time</td>
<td>1.0 ms</td>
</tr>
<tr>
<td>Load Resistance</td>
<td>2.2 – 50 kΩ</td>
</tr>
<tr>
<td>Load Capacitance</td>
<td>Max 0.05 μF</td>
</tr>
<tr>
<td>Output Source Current</td>
<td>0.2 mA</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>Min 10 MΩ</td>
</tr>
<tr>
<td>EMC</td>
<td>200 V/m</td>
</tr>
<tr>
<td>Thread</td>
<td>M10 x 1, G 1/4, M14 x 1.5, M12 x 1.5</td>
</tr>
<tr>
<td>Connector Type</td>
<td>Metri-Pack, Kompakt (Code 2), MQS, M12, Lead wire</td>
</tr>
<tr>
<td>Weight</td>
<td>60 g</td>
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</tbody>
</table>

### Environmental Specifications

<table>
<thead>
<tr>
<th></th>
<th>Environmental Specifications</th>
</tr>
</thead>
<tbody>
<tr>
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<td>-40 ~ +125°C</td>
</tr>
<tr>
<td>Shock</td>
<td>100 g</td>
</tr>
<tr>
<td>Vibration</td>
<td>20 g (10 ~ 2,000 Hz)</td>
</tr>
<tr>
<td>Sealing (when connected)</td>
<td>IP67 (G) – IP69 (SL)</td>
</tr>
</tbody>
</table>

### Special Specification Examples

- Other Threads.
- Other Connections
## General Specifications

<table>
<thead>
<tr>
<th>Type: S604E (MOQ 1 K)</th>
<th>Pressure Range</th>
<th>4 bar – 600 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Type</td>
<td>Gage or Sealed Reference</td>
<td></td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>5 V ±10%</td>
<td></td>
</tr>
<tr>
<td>Overvoltage Protection</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Current Supply</td>
<td>5 mA (max 16 mA)</td>
<td></td>
</tr>
<tr>
<td>Full Scale Output</td>
<td>12 bit PWM</td>
<td></td>
</tr>
<tr>
<td>Total Error</td>
<td>Typical ±1.0% ~ max ±1.5 % FS</td>
<td></td>
</tr>
<tr>
<td>Zero Pressure Output</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Overpressure Limitation (Clamp)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Output Ratiometricity</td>
<td>0.9 ~ 1.1 % / 1 % change of $V_s$</td>
<td></td>
</tr>
<tr>
<td>Response Time</td>
<td>Max 10 ms</td>
<td></td>
</tr>
<tr>
<td>Load Resistance</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Load Capacitance</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Output Source Current</td>
<td>1.0 mA</td>
<td></td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>Min 10 MΩ</td>
<td></td>
</tr>
<tr>
<td>EMC</td>
<td>200 V/m</td>
<td></td>
</tr>
<tr>
<td>Thread</td>
<td>M10 x 1, G 1/4, M14 x 1.5, M12 x 1.5</td>
<td></td>
</tr>
<tr>
<td>Connector Type</td>
<td>Metri-Pack, Kompakt (Code 2), MQS, M12, Lead wire</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>100 g</td>
<td></td>
</tr>
</tbody>
</table>

## Environmental Specifications

| Operating Temperature Range | -40 ~ +125°C |
| Shock                      | 100 g |
| Vibration                 | 20 g (10 ~ 2,000 Hz) |
| Sealing (when connected)  | IP67 (G) – IP69 (SL) |

## Special Specification Examples

- Other Threads.
- Other Connections
- Working temperature up to 140°C

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## General Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Type S604F</th>
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</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>1 bar – 250 bar</td>
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<tr>
<td>Pressure Type</td>
<td>Gage or Sealed Reference</td>
</tr>
<tr>
<td>Pressure Membrane</td>
<td>Ceramic type</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>Min 9V, typical 24V, max 30V</td>
</tr>
<tr>
<td>Overvoltage Protection</td>
<td>-30 ~ +30 V</td>
</tr>
<tr>
<td>Current Supply</td>
<td>TBA</td>
</tr>
<tr>
<td>Zero Pressure Output</td>
<td>4 mA</td>
</tr>
<tr>
<td>Full Scale Output</td>
<td>20 mA</td>
</tr>
<tr>
<td>Total Error</td>
<td>Typical ±1.0% ~ max ±1.5% FS</td>
</tr>
<tr>
<td>Overpressure Limitation (Clamp)</td>
<td>Max 30 mA</td>
</tr>
<tr>
<td>Output Ratiometricity</td>
<td>N/A</td>
</tr>
<tr>
<td>Response Time</td>
<td>1.0 ms</td>
</tr>
<tr>
<td>Load Resistance</td>
<td>100 Ω</td>
</tr>
<tr>
<td>Load Capacitance</td>
<td>Max 1.0 μF</td>
</tr>
<tr>
<td>Output Source Current</td>
<td>N/A</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>Min 1 MΩ</td>
</tr>
<tr>
<td>EMC</td>
<td>20 V/m</td>
</tr>
<tr>
<td>Thread</td>
<td>M10 x 1, G 1/4, M14 x 1.5, M12 x 1.5</td>
</tr>
<tr>
<td>Connector Type</td>
<td>Metri-Pack, Kompakt (Code 2), MQS, M12, Lead wire</td>
</tr>
<tr>
<td>Weight</td>
<td>100 g</td>
</tr>
</tbody>
</table>

## Environmental Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>-40 ~ +125°C</td>
</tr>
<tr>
<td>Shock</td>
<td>100 g</td>
</tr>
<tr>
<td>Vibration</td>
<td>20 g (10 ~ 2,000 Hz)</td>
</tr>
<tr>
<td>Sealing (when connected)</td>
<td>IP67 (G) – IP69 (SL)</td>
</tr>
</tbody>
</table>

## Special Specification Examples

- Other Threads.
- Other Connections
- Type S604G for absolute type of pressure reference in the range 1 bar to 10 bar
### General Specifications

<table>
<thead>
<tr>
<th>S604H • S604I</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Pressure Range</strong></td>
</tr>
<tr>
<td><strong>Pressure Type</strong></td>
</tr>
<tr>
<td><strong>Pressure Membrane</strong></td>
</tr>
<tr>
<td><strong>Supply Voltage</strong></td>
</tr>
<tr>
<td><strong>Overvoltage Protection</strong></td>
</tr>
<tr>
<td><strong>Current Supply</strong></td>
</tr>
<tr>
<td><strong>Zero Pressure Output</strong></td>
</tr>
<tr>
<td><strong>Full Scale Output</strong></td>
</tr>
<tr>
<td><strong>Total Error</strong></td>
</tr>
<tr>
<td><strong>Overpressure Limitation (Clamp)</strong></td>
</tr>
<tr>
<td><strong>Output Ratiometricity</strong></td>
</tr>
<tr>
<td><strong>Response Time</strong></td>
</tr>
<tr>
<td><strong>Load Resistance</strong></td>
</tr>
<tr>
<td><strong>Load Capacitance</strong></td>
</tr>
<tr>
<td><strong>Output Source Current</strong></td>
</tr>
<tr>
<td><strong>Insulation Resistance</strong></td>
</tr>
<tr>
<td><strong>EMC</strong></td>
</tr>
<tr>
<td><strong>Thread</strong></td>
</tr>
<tr>
<td><strong>Connector Type</strong></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
</tbody>
</table>

### Environmental Specifications

<table>
<thead>
<tr>
<th>S604H • S604I</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating Temperature Range</strong></td>
</tr>
<tr>
<td><strong>Shock</strong></td>
</tr>
<tr>
<td><strong>Vibration</strong></td>
</tr>
<tr>
<td><strong>Sealing (when connected)</strong></td>
</tr>
</tbody>
</table>

### Special Specification Examples

- Other Threads.
- Other Connections
- Type S604J (10 V) and S604K (5 V) for absolute type of pressure reference in the range of 1 bar to 10 bar

---

Contact:
- **E-mail**: info@caldaro.com
- **Internet**: www.caldaro.com
- **United Kingdom**: 0800 169 7950
- **Germany**: +49 (0)6136 760 56 00

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### General Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Type S604L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>1 bar – 250 bar</td>
</tr>
<tr>
<td>Pressure Type</td>
<td>Gage or Sealed Reference</td>
</tr>
<tr>
<td>Pressure Membrane</td>
<td>Ceramic type</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>5 V ±10%</td>
</tr>
<tr>
<td>Overvoltage Protection</td>
<td>-30 ~ +30 V</td>
</tr>
<tr>
<td>Current Supply</td>
<td>8 mA (max 16 mA)</td>
</tr>
<tr>
<td>Zero Pressure Output</td>
<td>0.10 x Vₛ</td>
</tr>
<tr>
<td>Full Scale Output</td>
<td>0.90 x Vₛ</td>
</tr>
<tr>
<td>Total Error</td>
<td>Typical ±1.0% ~ max ±1.5 % FS</td>
</tr>
<tr>
<td>Overpressure Limitation (Clamp)</td>
<td>Max 0.94 x Vₛ</td>
</tr>
<tr>
<td>Output Ratiometricity</td>
<td>0.9 ~ 1.1 % / 1 % change of Vₛ</td>
</tr>
<tr>
<td>Response Time</td>
<td>1.0 ms</td>
</tr>
<tr>
<td>Load Resistance</td>
<td>2 ~ 50 kΩ</td>
</tr>
<tr>
<td>Load Capacitance</td>
<td>Max 0.05 μF</td>
</tr>
<tr>
<td>Output Source Current</td>
<td>0.2 mA</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>Min 10 MΩ</td>
</tr>
<tr>
<td>EMC</td>
<td>200 V/m</td>
</tr>
<tr>
<td>Thread</td>
<td>M10 x 1, G 1/4, M14 x 1.5, M12 x 1.5</td>
</tr>
<tr>
<td>Connector Type</td>
<td>Metri-Pack, Kompakt (Code 2), MQS, M12, Lead wire</td>
</tr>
<tr>
<td>Weight</td>
<td>60 g</td>
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### Environmental Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>-40 ~ +125°C</td>
</tr>
<tr>
<td>Shock</td>
<td>100 g</td>
</tr>
<tr>
<td>Vibration</td>
<td>20 g (10 ~ 2,000 Hz)</td>
</tr>
<tr>
<td>Sealing (when connected)</td>
<td>IP67 (G) – IP69 (SL)</td>
</tr>
</tbody>
</table>

### Special Specification Examples

- Other Threads.
- Other Connections
- Type S604M for absolute type of pressure reference in the range 1 bar to 10 bar

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**General Specifications**

<table>
<thead>
<tr>
<th></th>
<th>Type S605A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>4 bar – 350 bar</td>
</tr>
<tr>
<td>Pressure Type</td>
<td>Gage or Sealed Reference</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>5 V ±10%</td>
</tr>
<tr>
<td>Overvoltage Protection</td>
<td>-30 ~ +30 V</td>
</tr>
<tr>
<td>Current Supply</td>
<td>8 mA (max 16 mA)</td>
</tr>
<tr>
<td>Zero Pressure Output</td>
<td>0.10 x V&lt;sub&gt;S&lt;/sub&gt;</td>
</tr>
<tr>
<td>Full Scale Output</td>
<td>0.90 x V&lt;sub&gt;S&lt;/sub&gt;</td>
</tr>
<tr>
<td>Total Error</td>
<td>Typical ±1.0% ~ max ±1.5 % FS</td>
</tr>
<tr>
<td>Overpressure Limitation (Clamp)</td>
<td>Max 0.94 x V&lt;sub&gt;S&lt;/sub&gt;</td>
</tr>
<tr>
<td>Output Ratiometricity</td>
<td>0.9 ~ 1.1 % / 1 % change of V&lt;sub&gt;S&lt;/sub&gt;</td>
</tr>
<tr>
<td>Response Time</td>
<td>Max 10 ms</td>
</tr>
<tr>
<td>Load Resistance</td>
<td>2 – 50 kΩ</td>
</tr>
<tr>
<td>Load Capacitance</td>
<td>Max 0.05 µF</td>
</tr>
<tr>
<td>Output Source Current</td>
<td>1.0 mA</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>Min 10 MΩ</td>
</tr>
<tr>
<td>EMC</td>
<td>200 V/m</td>
</tr>
<tr>
<td>Thread</td>
<td>M10 x 1, G 1/4</td>
</tr>
<tr>
<td>Connector Type</td>
<td>Metri-Pack, MQS</td>
</tr>
<tr>
<td>Weight</td>
<td>30 g</td>
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</tbody>
</table>

**Environmental Specifications**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>-40 ~ +125°C</td>
</tr>
<tr>
<td>Shock</td>
<td>30 g</td>
</tr>
<tr>
<td>Vibration</td>
<td>20 g (10 ~ 2,000 Hz)</td>
</tr>
<tr>
<td>Sealing (when connected)</td>
<td>IP67 (G) – IP69 (SL)</td>
</tr>
</tbody>
</table>

**Special Specification Examples**

- Other Threads.
- Other Connector or Lead wire
- Non Ratiometricity
- Working temperature up to 140°C
- Type S605C with incorporated temperature sensor (NTC or PT resistor output)

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Germany +49 (0)6136 760 56 00

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### General Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>S606A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>4 bar – 250 bar</td>
</tr>
<tr>
<td>Pressure Type</td>
<td>Gage or Sealed Reference</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>5 V ±10%</td>
</tr>
<tr>
<td>Overvoltage Protection</td>
<td>-30 ~ +30 V</td>
</tr>
<tr>
<td>Current Supply</td>
<td>8 mA (max 16 mA)</td>
</tr>
<tr>
<td>Zero Pressure Output</td>
<td>0.10 x V&lt;sub&gt;S&lt;/sub&gt;</td>
</tr>
<tr>
<td>Full Scale Output</td>
<td>0.90 x V&lt;sub&gt;S&lt;/sub&gt;</td>
</tr>
<tr>
<td>Total Error</td>
<td>Typical ±1.0% – max ±1.5 % FS</td>
</tr>
<tr>
<td>Overpressure Limitation (Clamp)</td>
<td>N/A</td>
</tr>
<tr>
<td>Output Ratiometricity</td>
<td>0.9 ~ 1.1 %</td>
</tr>
<tr>
<td>Response Time</td>
<td>Typical 1.5 ms</td>
</tr>
<tr>
<td>Load Resistance</td>
<td>4.7 ~ 50 kΩ</td>
</tr>
<tr>
<td>Load Capacitance</td>
<td>Max 0.05 μF</td>
</tr>
<tr>
<td>Output Source Current</td>
<td>1.0 mA</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>Min 10 MΩ</td>
</tr>
<tr>
<td>EMC</td>
<td>20 V/m</td>
</tr>
<tr>
<td>Pressure connection</td>
<td>TBA by the application</td>
</tr>
<tr>
<td>Connector Type</td>
<td>PCB Terminals</td>
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<tr>
<td>Weight</td>
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</tbody>
</table>

### Environmental Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th></th>
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<tr>
<td>Shock</td>
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</tr>
<tr>
<td>Vibration</td>
<td>20 g (10 ~ 2,000 Hz)</td>
</tr>
<tr>
<td>Sealing (when connected)</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Special Specification Examples

- Pressure Interface