**1/2" Disc Thermostats**

**Automatic Reset**

**CA/OA Series (602S / Silver) (602K / Gold)**

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**Bi-Metal Temperature Controls**

Selco’s comprehensive line of highly reliable switches utilize a temperature sensitive bi-metal disc, electrically isolated from the switch. Contacts will close (CA Series) or open (OA Series) on temperature rise when the surface or ambient temperature increases to the snap point of the calibrated bi-metal disc. The entire switch is enclosed in a phenolic dust-free housing. The bi-metal disc is retained by a metal heat conducting sensing cap and are all single pole, single throw non-adjustable switches. To provide flexibility for customer specific applications, we offer a variety of terminal and mounting configurations.

Selco switches are produced in an ISO 9001 certified factory to insure safe and reliable operation. All models are 100% factory inspected to ensure proper temperature, continuity and function.

Custom Manufacturing options are available including: brackets, pipe and tube mounts, lead termination, over-molding and epoxy sealing. For details regarding custom 1/2" disc assemblies see Custom Part Configurator XXXXX.

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**Everyday Applications**

- **Warming Equipment**
  - Fan Heaters
  - Electric Heaters
  - Water Heaters
  - Seat Heaters
- **Washing Machines**
  - Refrigerators
  - Furnaces
  - Fireplaces
  - Toasters
- **Microwave Ovens**
- **Coffee Makers**
- **Dryers**
- **Boilers**
- **And More...**

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**Technical Specifications**

**Silver Contacts (602S)**

- **Environmental Temperature**
  - -40˚-350˚F (-40˚-177˚C)
- **Electrical Ratings**
  - 125VAC, 15A, Resistive, 100,000 Cycles
  - 250VAC, 8A, Resistive, 100,000 Cycles
  - 120VAC, 5.8FLA, 34.8LRA, 6,000 Cycles
  - 240VAC, 2.9FLA, 17.4LRA, 6,000 Cycles
- **Insulation Resistance**
  - ≥100mΩ (with a 500VDC Megger)
- **Circuit Resistance**
  - ≤50mΩ (initial value)
- **Dielectric Strength**
  - 1,500VAC/1-min or 1,800VAC/1-sec
- **Certifications**
  - UL (E145478, XAPX2), CSA (1061290), RoHS

**Gold Contacts (602K)**

- **Environmental Temperature**
  - -40˚-350˚F (-40˚-177˚C)
- **Electrical Ratings**
  - 30VDC, 1A, Resistive, 100,000 Cycles
  - 120VAC, 125VA (Pilot Duty), 1A
- **Insulation Resistance**
  - ≥100mΩ (with a 500VDC Megger)
- **Circuit Resistance**
  - ≤10mΩ (initial value)
- **Dielectric Strength**
  - 1,200VAC/1-min
- **Certifications**
  - UL (E145478, XAPX2), c-UL (E145478, XAPX8), RoHS

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<table>
<thead>
<tr>
<th>TEMP RANGE</th>
<th>TEMP TOLERANCE</th>
<th>DIFFERENTIAL</th>
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</thead>
<tbody>
<tr>
<td>OPEN</td>
<td>CLOSE</td>
<td></td>
</tr>
<tr>
<td>32˚-122˚F (0˚-50˚C)</td>
<td>±7.2˚F (4˚C)</td>
<td>±9˚F (5˚C)</td>
</tr>
<tr>
<td>123˚-212˚F (51˚-100˚C)</td>
<td>±7.2˚F (4˚C)</td>
<td>±10.8˚F (6˚C)</td>
</tr>
<tr>
<td>213˚-302˚F (101˚-150˚C)</td>
<td>±9˚F (5˚C)</td>
<td>±12.6˚F (7˚C)</td>
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</tbody>
</table>

*Temperature rate of change at 1˚F (.5˚C) per minute  
*Tighter tolerance available upon request

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For more information on Selco Products please visit us at: [www.selcoproducts.com](http://www.selcoproducts.com)
1/2" Disc Thermostats
CA/OA (602S/602K) Series Technical Drawings

The drawings below are three example part configurations. For additional configurations, please see our “Part Number Configurator” for 1/2" Disc Assemblies.

OA-60-THBOS20

NOTE: It is the customer’s sole responsibility to specify and determine the suitability of a particular control or component based on their unique individual applications and requirements, with respect to temperature settings, cycle life, electrical load and environmental conditions.

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