591T Series
Electronic Faucet with Surface Mount Control Box

SPECIFICATION: (EXAMPLE)

- Supplied as complete product
- H₂Optics® Technology – no external adjustments required
- Chrome-plated CAST 102 mm (4") spout with integral sensor
- Battery (4 “C” cell) or Hardwire (24VAC) infrared electronic handwash system
- Adjustable sensing range and timeout
- Surface mount housing
- Mixing valve required (order separately)
- Serviceable filter screen upstream of the solenoid valve
- and... with... (specify battery or hardwire)
- with... (add outlet required)
- with... (for hardwire with battery backup – specify separately – see next page)
- with... (transformer required for hardwire operation – specify separately – see next page)

MODEL NUMBER EXAMPLE:
Configurations vary, see below for availability.

591T0220 TR

POWER SUPPLY
0 = Hardwire operated
1 = Battery operated

SPOUT
2 = 4" (102 mm) cast spout

OUTLET
2 = Vandal resistant laminar outlet
5 = Vandal resistant laminar outlet
9 = Vandal resistant spray outlet

CONTROL BOX
0 = Surface mount box (Available as complete model ONLY)
8 = Trim ONLY for recessed box (Must order rough-in number separately AND trim for complete product)
See DSP-591TCB8

TR ONLY used for recessed box (not required for surface box)

AVAILABLE MODELS

<table>
<thead>
<tr>
<th>OUTLET</th>
<th>HARDWARE</th>
<th>BATTERY OPERATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>591T0220</td>
<td>591T1220</td>
</tr>
</tbody>
</table>
|        | Vandal Resistant Laminar Outlet
| 1.5 gpm
(5.7 L/min) |                |
| 5      | 591T0250 | 591T1250        |
|        | Vandal Resistant Laminar Outlet
| 0.5 gpm
(1.9 L/min) |                |
| 9      | 591T0290 | 591T1290        |
|        | Vandal Resistant Spray Outlet
| 0.35 gpm
(1.32 L/min) |                |

Refer to www.specselect.com for individual models. Batteries included on all battery models.

Engineer/Architect Approval
Model Specified:
Approval: Date:

Flow Rates are at 60 PSI. Dimensions are for reference only. See current full-line price book or www.specselect.com for finish options and product availability.
FIND RATE VS PRESSURE

<table>
<thead>
<tr>
<th>Flow (L/min.)</th>
<th>Outlet Flow Rates</th>
<th>Flow (GPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>1.0</td>
<td>0.25</td>
</tr>
<tr>
<td>2</td>
<td>1.5</td>
<td>0.50</td>
</tr>
<tr>
<td>3</td>
<td>2.0</td>
<td>0.63</td>
</tr>
<tr>
<td>4</td>
<td>2.5</td>
<td>0.75</td>
</tr>
<tr>
<td>5</td>
<td>3.0</td>
<td>0.88</td>
</tr>
<tr>
<td>6</td>
<td>3.5</td>
<td>1.01</td>
</tr>
<tr>
<td>7</td>
<td>4.0</td>
<td>1.14</td>
</tr>
<tr>
<td>8</td>
<td>4.5</td>
<td>1.27</td>
</tr>
<tr>
<td>9</td>
<td>5.0</td>
<td>1.40</td>
</tr>
</tbody>
</table>

Spout Outlets
- No. 2 Laminar Flow Outlet
- No. 5 Flow Control Outlet
- No. 9 Outlet

TYPICAL INSTALLATION

AVAILABLE OPTIONS FOR FIELD CONVERSION

- **061047A** Hardwire with Battery Backup
  See DSP-8B for detailed specification.

- **060651A** 3 Position Switch
  See DSP-ELACC for detailed specification.

Note: Measurements may vary ± 6mm (0.25")
OPERATION:

• Hands free (touchless) operation.
• Water flows when sensor is activated.
• Water flow stops upon de-activation of sensor.
• Adjustable auto shut-off feature. Factory set to 45 seconds. Will reset once obstruction is removed.
• Adjustable sensing distance 76 to 381mm (3” to 15”) factory set to 229mm (9”) (± 3.0”)
• Low battery audible beep (for battery models only) will activate after faucet shuts off when approximately 1500 cycles remain.
• Metering mode with selectable flow times of 7 seconds to 4 minutes, factory set off.
• Periodic Rinse feature, time adjustable in 6 hour increments up to 2 days. Selectable rinsing lengths from 10 to 180 seconds. Factory set off.

NOTE 1: For optimum performance of this product, we recommend a system pressure between 20 and 80 PSI static. This product will operate up to a maximum of 125 PSI static per ANSI and CSA requirements. However, we do not recommend pressures above 80 PSI. Thermal expansion or leaking pressure reducing valves may require use of expansion tanks or relief valves to ensure your system never exceeds its maximum intended pressure setting.

NOTE 2: Designed for routine 171°F (77°C) disinfection cycles up to 30 minutes.

SENSOR CLEARANCE

For above deck mounted sinks, the sensor requires a clearance.

For sensor clearance:
10 mm (0.4”) maximum sink lip height from deck

OPTIONAL ACCESSORIES

<table>
<thead>
<tr>
<th>TRANSFORMERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>060704A  110 to 24 VAC Class 2  20 VA  (Up to 5 Electronic Valves)</td>
</tr>
<tr>
<td>060771A  110 to 24 VAC Class 2  40 VA   (Up to 10 Electronic Valves)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CORDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>061256A  36” Cable Extension</td>
</tr>
</tbody>
</table>

Note: Measurements may vary ± 6mm (0.25”)
**SURFACE MOUNT CONTROL BOX #0**

### 591T SERIES

<table>
<thead>
<tr>
<th>PRODUCT NO.</th>
<th>VALVE TYPE</th>
<th>COVER</th>
</tr>
</thead>
<tbody>
<tr>
<td>591T 0 2 0</td>
<td>Deckmount Handwash Hardwire</td>
<td>Surface Mount Control Housing</td>
</tr>
<tr>
<td>591T 1 2 0</td>
<td>Deckmount Handwash Battery</td>
<td>Surface Mount Control Housing</td>
</tr>
</tbody>
</table>

**VANDAL RESISTANT SURFACE MOUNT CONTROL HOUSING**

**591T SERIES**

Battery Operated – Box shown.

Hardwire Version comes complete with Watertight Connector and Hardwire Converter 24 VAC to 6.4 VDC.

Hardwire with Battery Backup (Available option for field conversion) comes complete with Watertight Connector, Hardwire Converter 24 VAC to 5 VDC and 9 V battery. See DSP-BB for detailed specification.

Recommended 381mm (15" max.) to top of counter

3/8" Compression Inlet (For End Connections)

3/8" Compression Connection Outlet

Battery Pack

3/4" # 10 Screw

Driver Board

BRAIDED HOSE

Note: Hose connections supplied between Solenoid Valve and Spout

3/8" COMPRESSION FITTING BOTH ENDS

Note: Measurements may vary ± 6mm (0.25"

Refer to www.specselect.com for individual models.