590TP Series – Electronic Faucet
With Surface Mount Control Box

TECK®
COMMERCIAL

◭DELTA.

Specification: (example)

- Supplied as complete product
- **Proximity® Sensing Technology**
- Chrome plated **CAST** Hi-Rise spout
- **Battery** (4 'C' cell) or **Hardwire** (24 VAC) deckmount electronic handwash system
- Adjustable sensing range and timeout
- Forged brass solenoid valve
- Surface mount housing
- Mixing valve required (order separately)
- Serviceable filter screen upstream of the valve

and... with... (specify battery or hardwire)
with... (add outlet required)
with... (4" or 8" coverplates – specify separately – see next page)
with... (for hardwire with battery backup – specify separately – see next page)
with... (transformer required for hardwire models – specify separately – see next page)

590TP0120
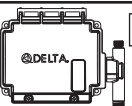
Engineer/Architect Approval

Model Specified:

Approval: Date:

DESCRIPTION	PRODUCT NO.			
Hardwire	**590TP0**	**1**		**0**
Battery Operated	**590TP1**	**1**		**0**

SPOUT VARIATION		OUTLET		CONTROL BOX	
0	☐	**0**	☐	**0** Surface Mount Housing* SEE Specification Drawing #29	✔
1 Single Hole Deckmount Hi-Rise Spout	✔	**1**	☐	**1**	☐
2	☐	**2** Vandal Resistant 1.5 gpm (5.7 L/min.) Laminar w/Agion® Antimicrobial	☐	**2**	☐
3	☐	**3** Vandal Resistant 1.5 gpm (5.7 L/min.) Flow Control Aerator	☐	**3**	☐
4	☐	**4**		**4**	☐
5	☐	**5** Vandal Resistant 0.5 gpm (1.9 L/min.) Laminar Outlet	☐	**5**	☐
6	☐	**6** Vandal Resistant 1.0 gpm (3.8 L/min.) Laminar Outlet	☐	**6**	☐
7	☐	**7**	☐	**7**	☐
8	☐	**8**	☐	**8**	☐
9	☐	**9** Vandal Resistant 0.35 gpm (1.32 L/min.) Non-Aerating Spray Outlet	☐	**9**	☐

***Mixing valve** (order separately).
Refer to www.specselect.com for individual models.

Flow Rates are at 60 PSI.
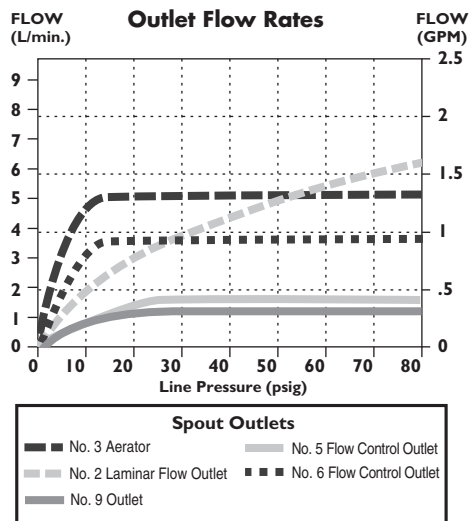Note: Use all pages as product submittal sheets.

Approvals:

- CSA certified
- Complies to ASME A112.18.1/CSA B125.1
- ♿ Indicates compliance to ICC / ANSI A117.1
- 💧 Outlet options 2, 3 and 6 are EPA WaterSense listed
- Verified compliant with 0.25% weighted average Pb content regulations

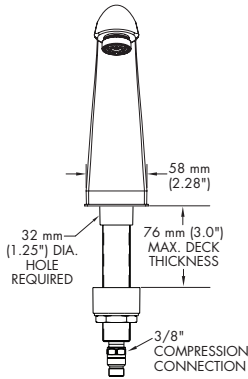(Contact Delta Representative for State and/or Local Approvals.)
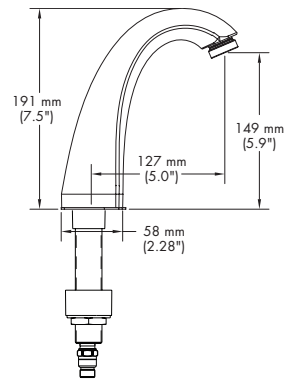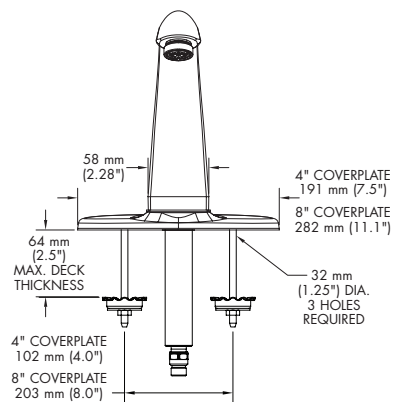
Patented

FLOW RATE vs PRESSURE

Outlet Flow Rates

FLOW (L/min.)   FLOW (GPM)

Line Pressure (psig)

Spout Outlets

- No. 3 Aerator
- No. 2 Laminar Flow Outlet
- No. 9 Outlet
- No. 5 Flow Control Outlet
- No. 6 Flow Control Outlet

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

590TP SERIES

FRONT VIEW

191 mm (7.5")
58 mm (2.28")
32 mm (1.25") DIA. HOLE REQUIRED
76 mm (3.0") MAX. DECK THICKNESS
3/8" COMPRESSION CONNECTION

SIDE VIEW

149 mm (5.9")
127 mm (5.0")
58 mm (2.28")

4" AND 8" COVERPLATE (ORDER SEPARATELY)

FRONT VIEW

58 mm (2.28")
64 mm (2.5") MAX. DECK THICKNESS
4" COVERPLATE 191 mm (7.5")
8" COVERPLATE 282 mm (11.1")
32 mm (1.25") DIA. 3 HOLES REQUIRED
4" COVERPLATE 102 mm (4.0")
8" COVERPLATE 203 mm (8.0")

SIDE VIEW

208 mm (8.2")
166 mm (6.5")
127 mm (5.0")
64 mm (2.5")
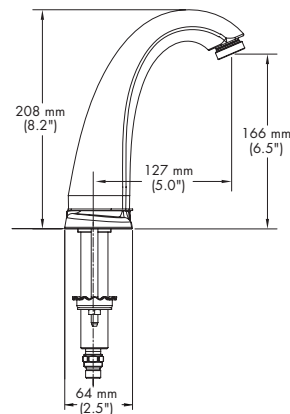
590TP0150 TYPICAL INSTALLATION

330 mm (13.0") MAX.
3/8" COMPRESSION CONNECTION
178 mm (7.0") MAX.
3/8" COMPRESSION CONNECTION
508 mm (20.0") BRAIDED POLYMER HOSE
SENSOR WIRE
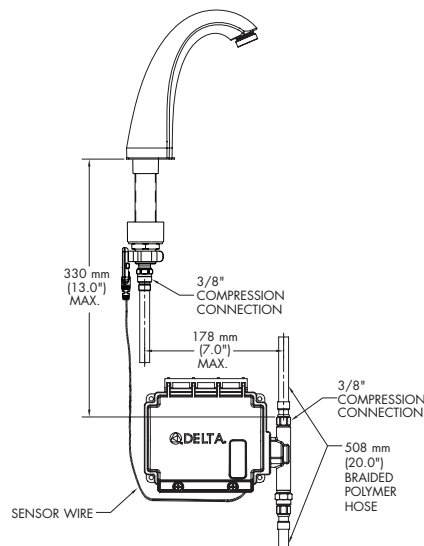
OPTIONAL COVERPLATES

PRODUCT NO.	DESCRIPTION
061159A	4" Coverplate
061160A	8" Coverplate

Available Optional Coverplates for field conversion.
Includes anti-rotation pin for secure public lavatory installation.

Refer to www.specselect.com for individual models.

Flow Rates are at 60 PSI.
Note: Use all pages as product submittal sheets.

590TP0 & 590TP1 SERIES
❏ **590TP0** Hardwire
❏ **590TP1** Battery Operated

OPERATION:
- Hands free (touchless) operation.
- No visible sensor, the spout is the sensor.
- Water flows when sensing is activated.
- Water flow stops upon de-activiation of sensing.
- Adjustable sensing distance factory set to 76 mm (3").
- Low battery audible beep (for battery models only) will activate after faucet shuts off when approximately 1500 cycles remain.
- Adjustable auto shut off feature. Factory set to 45 seconds.
- 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.

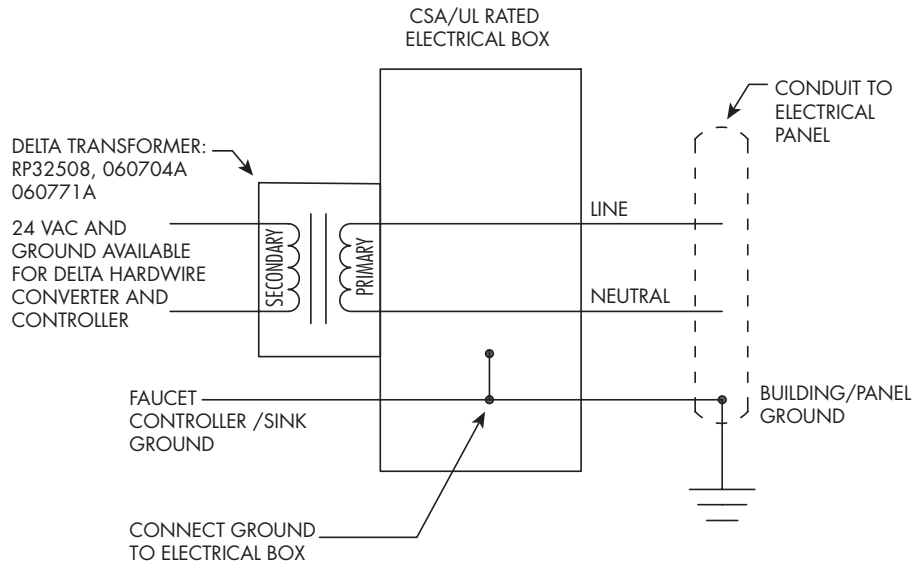**NOTE 2:** Designed for routine 180°F (82°C) disinfection cycles up to 10 minutes.

NOTE 3: Use 3-conductor 18AWG wire between transformer and hardwire converter/driver board earth ground.

NOTE 4: Use Delta Commercial approved transformers and mount the transformer a minimum of 6 inches away from the Delta driver board enclosure.

NOTE 5: Refer to Proximity Application Notes for installation best practices, proper grounding and wiring diagrams on www.specsselect.com.

590TP SERIES
ELECTRONIC DECK MOUNT LAVATORY FAUCET

ELECTRICAL SCHEMATICS

CSA/UL RATED
ELECTRICAL BOX

DELTA TRANSFORMER:
RP32508, 060704A
060771A

24 VAC AND
GROUND AVAILABLE
FOR DELTA HARDWIRE
CONVERTER AND
CONTROLLER

SECONDARY

PRIMARY

CONDUIT TO
ELECTRICAL
PANEL

LINE

NEUTRAL

BUILDING/PANEL
GROUND

FAUCET
CONTROLLER /SINK
GROUND

CONNECT GROUND
TO ELECTRICAL BOX

Available Options for Field Conversion
❏ **061047A**
Hardwire with Battery Backup
See DSP-BB for detailed specification.

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

OPTIONAL ACCESSORIES			
✔	**TRANSFORMERS**		
	060704A	110 to 24VAC Class II 20VA	(Up to 5 Electronic Valves)
	060771A	110 to 24VAC Class II 40VA	(Up to 10 Electronic Valves)
✔	**CORDS**		
	061256A	36" Cable Extension	

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

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

Note: Use all pages as product submittal sheets.

SURFACE MOUNT CONTROL BOX #0

		590TP SERIES		

✔	PRODUCT NO.				VALVE TYPE	COVER
	590TP	0	1	0	Deckmount Handwash Hardwire	Surface Mounted, Vandal Proof Control Housing
	590TP	1	1	0	Deckmount Handwash Battery	Surface Mounted, Vandal Proof Control Housing

**VANDAL PROOF SURFACE MOUNT CONTROL HOUSING**

590TP SERIES

Battery Operated – Box shown.

Hardwire Version comes complete with Watertight Connector and Hardwire Converter 24VAC to 6VDC.

Hardwire with Battery Backup (Available option for field conversion) comes complete with Watertight Connector, Hardwire Converter 24VAC to 6VDC and 9V battery. **See DSP-BB for detailed specification**).

36 mm (1.43")

146 mm (5.73")

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

3/4" # 10 Screw

139 mm (5.47")

Battery Pack

3/8" Compression Connection Outlet

100 mm (3.96")

Driver Board

Inlet 3/8" NPT or 3/8" Compression Adaptor (Supplied)

89 mm (3.5") MAX
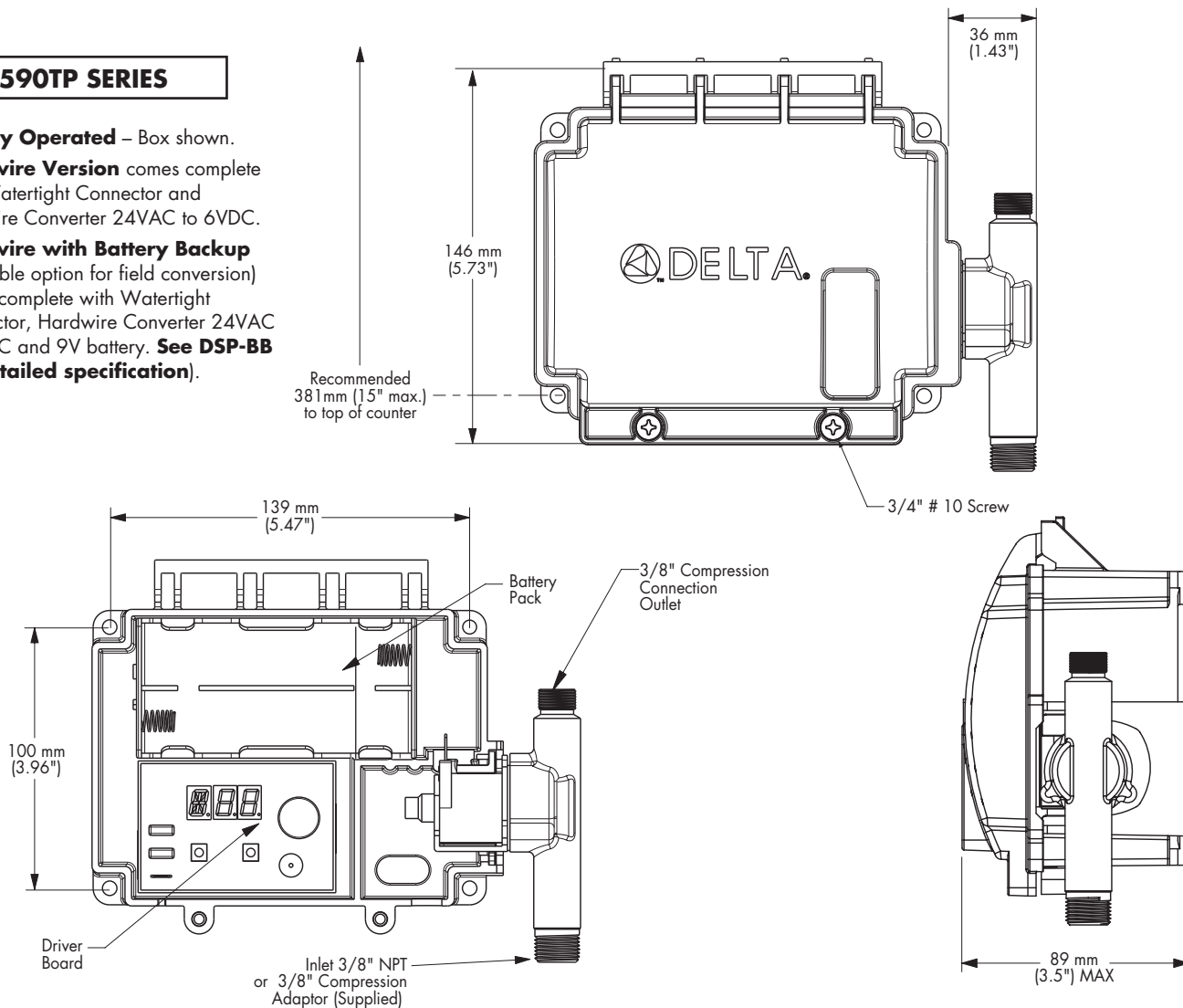
Note: Braided polymer hose connections supplied between Solenoid Valve and Spout as well as for Solenoid Valve Inlet

BRAIDED HOSE

508mm (20")

3/8" COMPRESSION FITTING BOTH ENDS
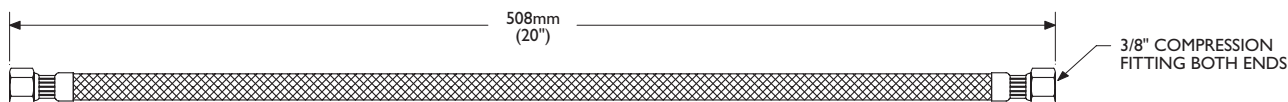
Note: Measurements may vary ± 6mm (0.25")

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