SMP2 Pedestrian Button Station

Product Information Sheet

Designed for the end user and easy installation, the SMP2 will provide years of excellent accessibility for traditional pedestrian buttons and the new generation APS buttons. With a minimal footprint of less than 0.8 square feet, the unit provides excellent stability for signs and pedestrian traffic signal activation buttons. The SMP2 design utilizes high grade aluminum castings and tubing with excellent surface coatings that will provide long term maintenance free operation for the agency installing and maintaining the device. The SMP2 is also designed with break-away in mind and meets or exceeds current AASHTO standards. Another key feature to the SMP2 is its ability to be mounted directly to the sidewalk surface eliminating the need for matching into foundations which can be difficult when trying to meet the latest ADA standards. Designed by people from the traffic industry, the SMP2 is a simple, clean solution for meeting today's stringent accessibility requirements.

SMP2 Features:

- *Excellent access for the user*
- *Clean, neat appearance*
- *Easy installation*
- *Break-away design*
- *Minimal footprint*
- *Mounts directly to concrete surface or foundation*
- *Smooth, catch free surfaces*
- *Simplifies meeting ADA requirements*
- *High quality finishes provide excellent long term appearance with minimal maintenance*
- *Reflective sheeting for improved visibility*

SMP2 photo to the left with APS system. (APS system not included.)

Ordering Options:

Mounting System:	Surface Mount	Foundation Mount

Finishes:	Anodized Natural Gray	Powder-Coat Natural Gray	Powder-Coat Jet Black	Powder-Coat Traffic Yellow

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SMP2 Specifications

The 60 inch APS pedestrian button support shall be constructed in the following manner:

1. The APS support unit shall be constructed of two primary pieces consisting of a cast aluminum base plate and a combination cast aluminum cone with welded aluminum pole and integral cap.
2. The base plate shall be constructed of cast aluminum using 319 grade aluminum. The base plate shall be a nominal 9.1875 inches in diameter and .75 inches thick with breakaway tab points of approximately .375 inches in height by 1.6 inches in length and .65 inches in depth. The base plate shall have four, .375 inch drilled and tapped mounting holes evenly spaced breakaway tabs to secure the cone casting utilizing a stainless steel .375 inch by 1.0 inch hex bolt. The base plate shall have an open center hole with a nominal diameter of 4.0 inches. The base plate shall have four elongated anchor bolt holes with a nominal dimension of .675 inches by .875 inches evenly spaced in a bolt circle of 6.5 inches.
3. The base cone assembly shall be constructed of cast aluminum using 319 grade aluminum. The unit shall be approximately 6.0 inches in height and approximately 9.875 inches in the outside diameter with a nominal wall thickness of .3 inches. The cone shall have a concave slop from the outer lip to the vertical portion of the shaft. The cone shall utilize an inset sleeve of approximately 1.0 inches that will allow the tube to slip over the cone and be aligned prior to the welding process.
4. The primary support shall be a 52 inch by 4.0 inch by .125 inch thick tube shall be constructed of 6061-T6 series aluminum. The hemisphere cap shall be constructed of the same material as the tube and a height of ½ of the tube diameter. The tube and cap shall be welded to their adjoining materials.
5. The tube shall be welded to the cone in a manner that provides vertical nadir of the tube for 360 degrees of the horizontal plane.
6. All weld joints shall consist of 5356 aluminum filler rod.
7. All mechanical fasteners between aluminum components shall be stainless steel.
8. All mechanical fasteners shall be coated with a high grade anti-seize material when fastening one aluminum component to another.
9. All joints, castings, surfaces and welds shall be machined or ground smooth to the touch. There shall be no visible burrs, grind marks, slag, or rough weld joints.
10. Anodized units shall be a natural aluminum gray color with a satin finish. Aluminum castings are not expected to perfectly match in color with aluminum extruded or sheet materials. All aluminum parts and pieces are to be anodized. Anodizing shall follow ASTM designation B611 standards. The anodized surface coating shall be considered “Architectural Class I” with a nominal coating thickness of 15 micro-meters.
11. Powder coated units shall be thoroughly cleaned and rinsed prior to the powder coating process. The finished powder coat finish shall be smooth and consistent throughout the unit. Completed powder coat finishes shall be 2–3 mils in thickness. The metal during the powder coat process shall reach 400 degrees F for a minimum time period of ten minutes.

The APS station shall be secured to the surface either by bent anchor bolts or surface mount, wedge style concrete anchors. *Bent anchor bolts* shall be hot dip galvanized ASTM F2329 and meet yield strengths of 36,000 PSI and a tensile strength of 58,000 PSI according to ASTM F1554, grade 36 standards. Nuts shall ½ inch by 13 TPI and galvanized according to ASTM A563 Grade “A” standards. *Surface anchors* shall be 0.5 inch x 5.5 inches in length and constructed of grade 316 stainless steel. Surface anchors shall be secured by a stainless steel nut. *Flat washers* on the top of the base plate shall be an extra thick zinc finished flat washer with dimensions of 0.5625 inch inside diameter x 1.375 inch outside diameter x 0.1 inch thick. Leveling flat washers may be standard zinc coated in various thicknesses to level the base plate. A 0.5 inch medium stainless *locking washer* shall be used for either bent anchor or surface anchor type fasteners. Bent anchor bolts or surface anchors shall protrude above the concrete surface 1.75 inches. A minimum concrete thickness of 6 inches is required when installing surface mount anchors.