

Talk-A-Phone Co.

Model ETP-MT/R OPT SOLAR Solar Emergency Phone Tower Architectural & Engineering Specification rev. 1/29/03

1 General Description

- 1.1 The unit shall be a highly vandal-resistant free-standing steel solar emergency phone tower, model ETP-MT/R OPT SOLAR, no substitutions, with built-in combination blue light/strobe, lighted faceplate, and solar kit. The tower shall house an ADA-compliant, line-powered communication device manufactured by Talk-A-Phone Co. Externally-powered devices are not acceptable.

2 Construction

- 2.1 The unit shall be constructed of 0.25" thick steel and weigh approximately 410 lbs not including solar panels, brackets and battery.
- 2.2 The unit shall measure 10" W x 12" D x 120" H (excluding solar panels, mounting brackets and mast) with a 2" radius on each corner.
- 2.3 A multi-coat, rust-inhibitive coating shall be applied to withstand prolonged exposure to harsh environments.
- 2.4 An internal base plate shall be fully welded within the tower 2" above the tower base. The base plate shall be fabricated of 0.75" A-36 steel. There shall be a 4" diameter center hole for wiring access and four 1" diameter holes for anchor bolt clearance.
- 2.5 Tower shall have a wiring access opening measuring 20" H x 10" W, located 15" above the base of the tower. The opening shall have a flush cover plate with a wall thickness of 0.25", held in place by two 10-24 countersunk, tamper-resistant spanner screws.
- 2.6 A shelf shall be mounted inside of the tower for placement of the battery and solar controller.
- 2.7 The tower shall be capped by a clear polycarbonate security enclosure topped with a solar mounting poll. Solar Mounting poll shall have a wiring channel which feeds inside the security enclosure and into the main channel of the tower. Wiring shall not be visible from the point of entry into the cap.
- 2.8 An opening shall be cut in the face of the column for mounting any flush-mounting, 400-Series emergency phone models. The lower edge of the opening shall slope down 30° from rear to front, making the edge difficult to use as a shelf yet convenient as a writing surface.
- 2.9 The word "EMERGENCY" shall be emblazoned on all four sides in 3.25" high reflective white letters (custom lettering, sizes and colors available).

3 Lighting

- 3.1 Atop the tower shall be a combination blue light and strobe.
 - 3.1.1 The blue light shall consist of ultra-bright, long-lasting LEDs. It shall be lit at all times.
 - 3.1.2 The strobe shall provide 1.5 million candlepower and flash 70 times per minute when the emergency phone is activated and continue flashing until the call has been completed.
 - 3.1.3 The polycarbonate refractor/housing shall have a prismatic pattern to increase visibility at greater distances.
 - 3.1.4 Refractor housing shall further be enclosed in a clear polycarbonate security enclosure.
- 3.2 The tower shall have a concealed ultra-bright, long-lasting LED board illuminating the emergency phone face plate at all times.

4 Electrical

- 4.1 The communication device shall require no external power. It shall be powered by the phone line, PBX extension, or a wireless communication interface.
- 4.2 The battery shall be 12VDC, 100 Amp Hour capacity. Detailed specifications shall be available separately.
- 4.3 All lamps and fixtures shall be UL and C.S.A. listed. All electrical components shall be hard wired and concealed within the tower. All wiring and electrical fixtures comply with the standards of the National Electrical Code, UL and C.S.A.

5 Mounting

- 5.1 The tower shall include 24 inch J-bolts for mounting into a 24" x 24" concrete foundation, depth to vary according to local regulations and other site-specific considerations. J-bolts shall protrude approximately 5 inches from surface of foundation.
- 5.2 An optional mounting kit shall be available for mounting into above ground locations such as parking decks, where access to concrete base is available from both above and below.

6 Options

- 6.1 Power
 - 6.1.1 Tower shall include solar kit, model SOLAR-A, for region A as designated by Talk-A-Phone Co. (see map of solar regions). SOLAR-A shall include a 12VDC, 100 Amp Hour battery, solar controller, 60W PV Array, and all necessary mounting brackets and electrical connectors for integrating with

Solar Emergency Phone Tower Mount. Detailed specifications shall be available separately.

- 6.1.2 Tower shall include solar kit, model SOLAR-B, for region B as designated by Talk-A-Phone Co. (see map of solar regions). SOLAR-B shall include a 12VDC, 100 Amp Hour battery, solar controller, 75W PV Array, and all necessary mounting brackets and electrical connectors for integrating with Solar Emergency Phone Tower Mount. Detailed specifications shall be available separately.
- 6.1.3 Tower shall include solar kit, model SOLAR-C, for region C as designated by Talk-A-Phone Co. (see map of solar regions). SOLAR-C shall include a 12VDC, 100 Amp Hour battery, solar controller, 100W PV Array, and all necessary mounting brackets and electrical connectors for integrating with Solar Emergency Phone Tower Mount. Detailed specifications shall be available separately.
- 6.1.4 Tower shall include solar kit, model SOLAR-D, for region D as designated by Talk-A-Phone Co. (see map of solar regions). SOLAR-D shall include a 12VDC, 100 Amp Hour battery, solar controller, 150W PV Array, and all necessary mounting brackets and electrical connectors for integrating with Solar Emergency Phone Tower Mount. Detailed specifications shall be available separately.

6.2 Communications

- 6.2.1 Tower shall accept any 400-Series flush mounting emergency phone.
- 6.2.2 Communication device shall accept fiber optic line instead of standard copper wire. 400-Series flush mounting emergency phone and fiber interface shall be required.
- 6.2.3 Cellular Interface shall be available when phone line is not available.
 - 6.2.3.1 Transmission shall be tri mode 800MHz TDMA/1900 MHz PCS/800 MHz AMPS, model ETP-CI.
 - 6.2.3.2 Transmission shall be 1900Mhz GSM, model ETP-CI/GSM.
- 6.2.4 Radio Frequency Interface, model ETP-WTR/2, shall be available when phone lines are not available. Radio Frequency Interface functions as part of a complete proprietary radio frequency system.

6.3 Integrated CCTV

- 6.3.1 Model ETP-MT/R OPT 2 shall include an integrated fixed camera, supplied by others, mounted above the faceplate.
- 6.3.2 Model ETP-MT/R OPT 3 shall include an integrated Silent Witness fixed camera mounted above the faceplate. For full specifications of Silent Witness camera, contact Talk-A-Phone Co.

7 Warranty

7.1 Equipment shall be warrantied against any defects in material and workmanship, under normal use, for a period of five years from date of installation. In the event system is found by manufacturer to be defective within the warranty period, manufacturer shall repair and/or replace any defective parts, provided the equipment is returned to manufacturer.

8 Manufacturer

8.1 The Manufacturer shall be Talk-A-Phone Co. (773) 539-1100, 5013 N. Kedzie, Chicago, Illinois 60625, www.talkaphone.com. THERE ARE NO EQUIVALENTS.