ChargePro 620
Electric Vehicle Charging Station
Installation Guide

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This document provides instructions to install the ChargePro™ 620 Charging Station and should not be used for any other product. This product must be installed in accordance with the National Electrical Code (NEC) or the Canadian Electrical Code (CEC) whichever is applicable. Consult a licensed contractor and/or electrician before installation to ensure compliance with local building practices, climate conditions, safety standards, and state and local codes. **Under no circumstances will compliance with the information in this guide relieve the installer of responsibility to comply with all applicable codes and safety standards.**

This document describes the most common installation and mounting methods. Contact SemaConnect where it is not possible to perform an installation using the procedures provided in this document. SemaConnect is not responsible for damages that may occur during or as a result of installation.

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ChargePro Single Pedestal Mount Installation

Key Electrical Requirements
- Charging station shall be on a dedicated electrical circuit.
- Station shall be protected with a 40 Amp 2-pole common trip circuit breaker.
- Station is designed to draw a maximum of 30Amps.
- Station can operate on either a 240V or 208V circuit.
- Station requires three electrical supply wires (two hot, one ground, no neutral).
- All data communication is wireless, so there is no data cabling to install.

Key Mechanical/Civil Requirements
- Rough-in shall include placing a concrete pad with a manufacturer provided anchor plate.
- The anchor plate includes a 3/8” steel plate welded to an 18” long steel pipe.
- Four sacrificial bolts (supplied by manufacturer) shall be installed in anchor plate.
- Prior to concrete placement, conduit can be run through bottom of anchor plate or through hole in side.
- The Pedestal is then bolted to anchor plate.
- The Station is then mounted to the Pedestal.

Primary Parts
Charging Station (includes main unit, neck, cable and J1772 plug)
Cable Rack
Pedestal (includes base and tube)
Anchor Plate

Key Dimensions
Total Station Height Above Grade: 56”
Station (including neck): 24.5”x6”x6”
Pedestal (including base): 32”x8”x8”
Anchor Plate
  Top Plate: 3/8”x8”x8”
  Tube: 18” x 2.5” diam
  Stabilizing Rods: 8” end to end
ChargePro Dual Pedestal Mount Installation

**Key Electrical Requirements**
- Each EV charging station shall be on a dedicated electrical circuit.
- Each station shall be protected with a **40 Amp 2-pole common trip circuit breaker**. (i.e.: since there are two stations in this configuration, two 40 amp 2-pole common trip circuit breakers are needed.)
- Each station is designed to draw a maximum of 30Amps.
- Each station can operate on either a **240V or 208V circuit**.
- Each station requires **three electrical supply wires** (two hot, one ground, no neutral).
- All data communication is wireless, so there is **no data cabling** to install.

**Key Mechanical/Civil Requirements**
- Rough-in shall include placing a concrete pad with a manufacturer provided anchor plate.
- The anchor plate includes a 3/8” steel plate welded to an 18” long steel pipe.
- Four sacrificial bolts (supplied by manufacturer) shall be installed in anchor plate.
- Prior to concrete placement, conduit can be run through bottom of anchor plate or through hole in side.
- The Pedestal is then bolted to anchor plate.
- Each Station is then mounted to the Pedestal.

**Primary Parts**
- Charging Station (includes main unit, neck, cable and J1772 plug)
- Cable Rack
- Pedestal (includes base and tube)
- Anchor Plate

**Key Dimensions**
- Total Station Height Above Grade: 57”
- Station (including neck): 24.5”x6”x6”
- Pedestal (including base): 31”x8”x8”
- Anchor Plate
  - Top Plate: 3/8”x8”x8”
  - Tube: 18” x 2.5” diam
  - Stabilizing Rods: 8” end to end
ChargePro Single and Dual Pedestal Mount Installation (cont)

Rough-In Steps
A. Install circuit breaker(s), run electrical conduit.
B. Construct concrete form (typical footprint: 24” x 24”).
C. Place anchor plate and run conduit through anchor plate.
D. Embed anchor plate in concrete.

Final Assembly Steps
A. Attach cable rack to Charging Station (4 set screws).
B. Attach Pedestal to Anchor plate (4 anchor bolts).
C. Align Pedestal for Plumb (4 set screws).
D. Attach Charging Station to Pedestal (4 mounting screws).
E. Connect three electrical supply wires via access plate.
F. Power up Charging Station by turning on circuit breaker.
G. Station will automatically communicate with network and initialize itself (using cellular signal).
H. Successful power-up is indicated by a steady blue LED light and welcome message on LCD.

Example Installation

1. Prep for Concrete Placement

2. Finished Concrete Pad

3. Aligning Pedestal

4. Connecting Wires

5. Final Installation
ChargePro Wall/Pole Mount Installation

**Key Electrical Requirements**
- Each EV charging station shall be on a dedicated electrical circuit.
- Each station shall be protected with a 40 Amp 2-pole common trip circuit breaker.
- Each station is designed to draw a maximum of 30Amps.
- Each station can operate on either a 240V or 208V circuit.
- Each station requires three electrical supply wires (two hot, one ground, no neutral).
- All data communication is wireless, so there is no data cabling to install.

**Key Mechanical/Civil Requirements**
- Rough-in includes:
  - If Wall-Mount - Attaching Wall/Pole Mount Bracket to Wall with Four Bolts (bolts not provided)
  - If Pole-Mount – Attaching Wall/Pole Mount Bracket to Pole with Three Straps (straps not provided)
- Conduit can either attach to side of bracket though pre-cut 1.0” hole, or
- Conduit can enter though wall hole into back of bracket

**Primary Parts**
Charging Station (includes main unit, neck, cable and J1772 plug)
Cable Rack
Wall/Pole Mount Bracket

**Key Dimensions**
- Total Station Height Above Grade: 56”
- Wall/Pole Mount Bracket Plate: 20.5” x 4.25”
- Station (including neck): 24.5”x6”x6”

![Diagram of Wall/Pole Mount Installation](image)

- Vertical Mounting Dimensions (Wall-Mount Shown)
- Total Station Height Above Grade: 56.0”
- Center of LCD Screen: 49.0”
- Top of Wall Mount Bracket: 47.3”
- Center of Conduit Wall Hole: 28.8”
- Bottom of Wall Mount Bracket: 26.5”
- Rough Opening Less Than 1.5in Diameter (if hidden conduit)
ChargePro Wall/Pole Mount Installation (cont)

Rough-In Steps
A. Attach Wall/Pole Mount Bracket
   a. If Wall-Mount-Attach Wall/Pole Mount Bracket to wall with 4 bolts.
   b. If Pole-Mount-Attach Wall/Pole Mount Bracket with three straps.
B. Install circuit breaker, run electrical conduit.

Final Assembly Steps
A. Attach cable rack to Charging Station (4 set screws).
B. Attach Charging Station to Wall/Pole-Mount Bracket (4 set screws).
C. Connect three electrical supply wires via access plate.
D. Power up charging station by turning on circuit breaker.
E. Station will automatically communicate with network and initialize itself (using cellular signal).
F. Successful power-up is indicated by a steady blue LED light and welcome message on LCD.

Example Installation

Rough-In Complete

Attaching Charging Station to Wall/Pole-Mount Bracket

Connected Supply Wires

Finished Installation