

## **NEMA/IP Number Definitions**

### **NEMA-#:**

- 1:** General Purpose (Indoor)
- 2:** Water Drip Proof (Indoor)
- 3R:** Dust Tight, Rain Tight, and Ice Resistant (Outdoor)
- 4:** Water Tight and Dust Tight (Indoor/Outdoor)
- 4X:** Water Tight, Dust Tight, and Corrosion Resistant (Indoor/Outdoor)
- 9:** Indoor Hazardous Locations (Not Applicable to EMS Equipment)
- 12:** Industrial Use - Dust Tight and Drip Tight (Indoor)
- 13:** Oil Tight and Dust Tight (Indoor)

Example: **NEMA-4** is water tight and dust tight indoor and outdoor.

### **IP##:**

#### **(First #)**

- 0:** No Special Protection
- 1:** Protected Against Solid Objects > 50 mm in Diameter
- 2:** Protected Against Solid Objects > 12 mm in Diameter
- 3:** Protected Against Solid Objects > 2.5 mm in Diameter
- 4:** Protected Against Solid Objects > 1 mm in Diameter
- 5:** Dust Protected
- 6:** Dust Tight

#### **(Second #)**

- 0:** No Special Protection
- 1:** Protected Against Dripping Water
- 2:** Protected Against Dripping Water When Tilted Up to 15° C From Normal Position
- 3:** Protected Against Spraying Water
- 4:** Protected Against Splashing Water
- 5:** Protected Against Water Jet Spray
- 6:** Protected Against Heavy Jet Spray
- 7:** Protected Against the Effects of Immersion
- 8:** Protected Against Submersion

Example: **IP54** is dust protected, and protected against splashing water.