



IP Ratings and Definitions

IP Ratings or International Protection Code is a standard rating system that indicates the type of environments a particular instrument is capable of operating (according to rules IEC529). The IP rating takes the form of IP-**. Where each * is replaced by a number corresponding to a particular rating. The following chart explains each of the numbers. IP-**

Protection Index - First Character: Solids

0 = No special protection

1 = Protected against solid objects 50> mm in diameter (ie: hand contact)

2 = Protected against solid objects 12> mm in diameter (ie: fingers)

3 = Protected against solid objects 2.5> mm in diameter (ie: tools, wires)

4 = Protected against solid objects 1 mm in diameter (ie: small tools, small wires)

5 = Dust Protected (no harmful deposits)

6 = Dust Tight (no deposits)

Protection Index - Second Character: Liquids

0 = No special protection

1 = Protected against vertical dripping water (condensation)

2 = Protected against dripping water when tilted 15 degrees on either side

3 = Protected against rain up to 60 degrees vertical

4 = Protected against any water jet, any direction

5 = Protected against water jet with nozzle

6 = Protected against incoming water similar to sea waves

7 = Protected against the effects of immersion

8 = Protected against submersion