



IP Ratings, or the 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 ratings takes the form of IP-**. Where each * is replaced by a number corresponding to a particular rating. The first is for solids and the second, liquid. 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**