

SOLIDS

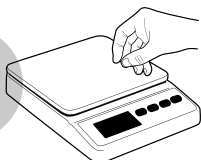
The first digit is a number between 0 and 6, and it gives information about the object's resistance to solid materials.

0



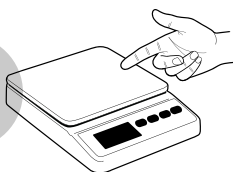
No protection

1



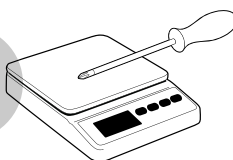
Protected against a large bodily surface such as a hand (objects over 50 mm)

2



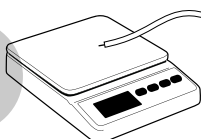
Protected against fingers and similarly-sized objects (objects over 12.5 mm)

3



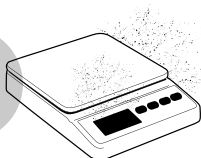
Protected against solid objects such as tools and thick wires (objects over 2.5 mm)

4



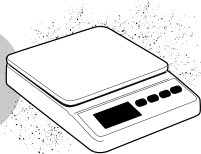
Protected against smaller solid objects such as tools and wires (objects over 1 mm)

5



Protected against limited amounts of dust

6



Protected totally against dust

The IP Code refers to the degree to which an electrical enclosure is protected from outside sources, both solid and liquid. It allows users to better understand a unit's effectiveness against outside agents.

EXAMPLE

IP

6

5

Made up of the letters "IP" followed by two numerical digits, the Code provides users the ability to see what a unit is effective against all at one time.

The two digits are combined to create an IP rating.

For example, a unit rated IP65 would be protected against both dust and from being sprayed with low pressure water from any direction.

LIQUIDS

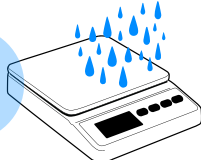
The second digit is a number between 0 and 8, and it gives information about the object's resistance to liquids.

0



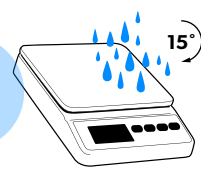
No protection

1



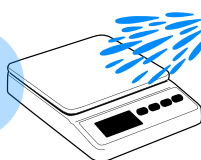
Protected against vertically dripping water

2



Protected against vertically dripping water when the enclosure is tilted an extra 15° from its standard position

3



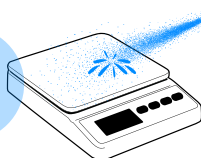
Protected against water being sprayed up 60° from vertical position

4



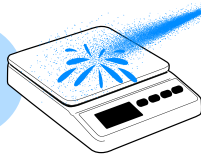
Protected against water splashing from any direction

5



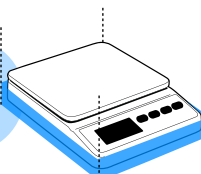
Protected against jets of water spraying at a low pressure from any direction

6



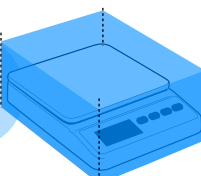
Protected against jets of water spraying at a high pressure from any direction

7



Protected against water entering the enclosure when submerged underwater (less than 1 m)

8



Protected against being submerged underwater for long periods of time (more than 1 m)