

IP (Ingress Protection) Ratings Explained

Solids

Water

1 Protected against a solid object greater than 50 mm such as a hand.

1 Protected against vertically falling drops of water. Limited ingress permitted.

2 Protected against a solid object greater than 12.5 mm such as a finger.

2 Protected against vertically falling drops of water with enclosure tilted up to 15 degrees from the vertical. Limited ingress permitted.

3 Protected against a solid object greater than 2.5 mm such as a screwdriver.

3 Protected against sprays of water up to 60 degrees from the vertical. Limited ingress permitted for three minutes.

4 Protected against a solid object greater than 1 mm such as a wire.

4 Protected against water splashed from all directions. Limited ingress permitted.

5 Dust Protected. Limited ingress of dust permitted. Will not interfere with operation of the equipment. Two to Eight hours

5 Protected against jets of water. Limited ingress permitted,

6 Dust tight. No ingress of dust. Two to Eight hours.

6 Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities

IP 5 5

Rating Example
Ingress Protection

7 Protection against the effects of immersion in water between 15cm and 1m for 30 mins.

8 Protection against the effects of immersion in water under pressure for long periods.