

## IP RATING CHART

Ingress Protection (IP) Ratings gauges the protection of mechanical casings and electrical enclosures against intrusion, dust, accidental contact, and water.

IP Ratings are determined by combining one digit from each of the two columns below.

### SOLIDS

- 1** Protected against a solid object greater than 50mm, such as a hand.
- 2** Protected against a solid object greater than 12.5mm, such as a finger.
- 3** Protected against a solid object greater than 2.5mm, such as a screwdriver.
- 4** Protected against a solid object greater than 1mm, such as a wire.
- 5** Dust Protected. Limited ingress of dust permitted. Will not interfere with operation of the equipment. **2-8 hours**

### LIQUIDS

- 1** Protected against vertically falling drops of water. **Limited ingress permitted.**
- 2** Protected against vertically falling drops of water with enclosure tilted up to 15° from the vertical. **Limited ingress permitted.**
- 3** Protected against sprays of water with enclosure tilted up to 60° from the vertical. **Limited ingress permitted for 3 minutes.**
- 4** Protected against water splashed from all directions. **Limited ingress permitted.**
- 5** Protected against jets of water. **Limited ingress permitted.**
- 6** Water from heavy seas or water projected in powerful jets will not enter the enclosure in harmful quantities.
- 7** Protection against the effects of immersion in water between 15cm and 1m for 30 minutes.
- 8** Protection against the effects of immersion in water under pressure for long periods.

Rating Example:

**IP 65**

**Ingress Protection**