

Ingress Protection (IP) Ratings

Wedderburn highly recommends choosing the right scale for the job. This will include ensuring the scale has the correct IP Rating to suit the environment it will be used in.

The Ingress Protection (IP) rating system is recognised in most European countries and provides a means of classifying the degrees of protection from dust, water and impact afforded by electrical equipment and enclosures.

Below are tables that explain the IP rating system.

The **first number** relates to the degree of protection against **solid foreign objects**.

Rating	Object Size	Explanation
0	Not protected	No special protection
1	> 50 mm	Protection against objects over 50 mm
2	> 12.5 mm	Protection against objects over 12.5 mm
3	> 2.5 mm	Protection against objects over 2.5 mm
4	> 1 mm	Protection against objects over 1 mm
5	Dust protected	Protected against dust - limited regress
6	Dust tight	Complete protection against dust

The **second number** relates to the degree of protection against **moisture and water**.

Rating	Object Size	Explanation
0	Not protected	No special protection
1	Dripping water	Protected against vertically falling drops of water (e.g. condensation)
2	Dripping water when tilted up to 15°	Protected against vertically falling drops of water at 15°
3	Spraying water	Protected against direct sprays of water up to 60° from the vertical
4	Splashing water	Limited protection against water splashing from any direction.
5	Water jets	Limited protection against low pressure water jets from any direction.
6	Powerful water jets	Limited protection against strong pressure water jets from any direction.
7	Immersion up to 1 metre	Protection against the effects of temporary immersion up to 1 meter tested for 30 minutes.
8	Immersion beyond 1 metre	Protection against long periods of immersion under pressure.
9K	Protection against water at high pressure / steam cleaning	When water is sprayed against the housing from any direction at high pressure.

Specifications may change without notice

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