

IP RATINGS

IP Rating	Digit 1 - Solids	Digit 2 - Liquids	Testing For
IP60	Protected from total dust ingress	Not protected from liquids, limited ingress protection	
IP61	Protected from total dust ingress	Protected from condensation, limited ingress protection	Dripping water (vertically falling drops) shall have no harmful effect.
IP62	Protected from total dust ingress	Protected from water spray less than 15 degrees from vertical, limited ingress protection	Vertically dripping water shall have no harmful effect when the enclosure is tilted at an angle up to 15° from its normal position.
IP63	Protected from total dust ingress	Protected from water spray less than 60 degrees from vertical, limited ingress protection	Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect
IP64	Protected from total dust ingress	Protected from water spray from any direction, limited ingress protection	Water splashing against the enclosure from any direction shall have no harmful effect.
IP65	Protected from total dust ingress	Protected from low pressure water jets from any direction, limited ingress protection	Water projected by a nozzle (6.3mm) against enclosure from any direction shall have no harmful effects.
IP66	Protected from total dust ingress	Protected from high pressure water jets from any direction, limited ingress protection	Water projected in powerful jets (12.5mm nozzle) against the enclosure from any direction shall have no harmful effects.
IP67	Protected from total dust ingress	Protected from immersion between 15 centimetres and 1 metre in depth, limited ingress protection	Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1 m of submersion).
IP68	Protected from total dust ingress	Protected from long term immersion up to a specified pressure, limited ingress protection	The EQUIPMENT is suitable for continuous immersion in water under conditions which shall be specified by the manufacturer. Normally, this will mean that the EQUIPMENT is hermetically sealed. However, with certain types of EQUIPMENT, it can mean that water can enter but only in such a manner that it produces no harmful effects.