

IP RATING GUIDE



INGRESS PROTECTION

LEVEL	EFFECTIVE AGAINST	DESCRIPTION	LEVEL	PROTECTIVE AGAINST	EFFECTIVE AGAINST
X	–	<i>X means there is no data available to specify a protection rating with regard to one of the criteria.</i>	0	None	–
0	–	<i>No protection against contact and ingress of objects.</i>	1	Dripping water	<i>Dripping water (vertically falling drops) shall have no harmful effect on the specimen when mounted in its normal operating position onto a turntable and rotated at 1 RPM.</i>
1	>50mm	<i>Any large surface of the body, such as the back of a hand, but no protection against deliberate contact with a body part.</i>	2	Dripping water when tilted at 15°	<i>Vertically dripping water shall have no harmful effect when the enclosure is tilted at an angle of 15° from its normal position. A total of 4 positions are tested within 2 axes.</i>
2	>12.5mm	<i>Fingers or similar objects.</i>	3	Spraying water	<i>Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect (utilising an oscillating fixture, or a spray nozzle with a counterbalanced shield).</i>
3	>2.5mm	<i>Tools, thick wires, etc.</i>	4	Splashing of water	<i>Water splashing against the enclosure from any direction shall have no harmful effect (utilising an oscillating fixture or a spray nozzle with no shield).</i>
4	>1mm	<i>Most wires, slender screws, large ants etc.</i>	5	Water jets	<i>Water projected by a nozzle (6.3mm at 12.5 litres/minute) against enclosure from any direction shall have no harmful effects.</i>
5	Dust protected	<i>Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment.</i>	6	Powerful water jets	<i>Water projected in powerful jets (12.5mm nozzle at 100 litres/minute) against the enclosure from any direction shall have no harmful effects.</i>
6	Dust tight	<i>No ingress of dust; complete protection against contact (dust tight). A vacuum must be applied. Test duration of up to 8 hours based on air flow.</i>	7	Immersion, 1m depth	<i>Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water of 1m depth for 30 minutes.</i>
			8	Immersion, 1m or more depth	<i>The equipment is suitable for continuous immersion in water under conditions specified by the manufacturer with depth & duration greater than requirements for IPX7.</i>

EXAMPLE:

