

IP Rating Codes



Document #119
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An International Protection Rating (IP Code) classifies the amount of protection electrical enclosures have against solid objects and water. This rating is often seen on outdoor electrical devices such as GPS units, dataloggers, water testing meters, etc. Each IP rating consists of two numbers. The first number is the rating for solid object protection and the second number is for water protection. (For example, on an IP67 rating the 6 describes the level of solid object protection and the 7 describes the level of water protection). The table below shows what each number designates:

First Number	Effectiveness Against Solid Objects	2nd Number	Effectiveness Against Water
0	No protection	0	No protection
1	>50mm - (large objects or hands)	1	Dripping water
2	>12.5mm (fingers or tools)	2	Sprays up to 15° from vertical
3	>2.5mm (thick wires or small tools)	3	Sprays up to 60° from vertical
4	>1mm (wires or screws)	4	Spray from every directions
5	Dust may enter but in very little quantity	5	Low pressure jets from every direction
6	Complete dust protection	6	Strong jets from every direction
		7	Temporary immersion between 15cm and 1m for 30 min
		8	Immersion beyond 1m (depth usually specified by manufacturer)

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