

APPLICATION NOTE

03 February 2014

IP WATER PROOF RATINGS

IP stands for Ingress Protection.

An IP number is used to specify the environmental protection of enclosures around electronic equipment. These ratings are determined by specific tests.

The IP number is composed of two numbers, the first referring to the protection against solid objects and the second against liquids. The higher the number, the better the protection.

First Number

0	- No protection (sometimes X)
1	- Protected against solid objects up to 50mm ³
2	- Protected against solid objects up to 12mm ³
3	- Protected against solid objects up to 2.5mm ³
4	- Protected against solid objects up to 1mm ³
5	- Protected against dust, limited ingress (no harmful deposit)
6	- Fully protected against dust

Second Number

0	- No protection (sometimes X)
1	- Protection against vertically falling drops of water (e.g. condensation)
2	- Protection against direct sprays of water up to 15 degrees from vertical
3	- Protection against direct sprays of water up to 60 degrees from vertical
4	- Protection against water sprayed from all directions - limited ingress permitted
5	- Protected against low pressure jets of water from all directions - limited ingress permitted
6	- Protected against low pressure jets of water, limited ingress permitted (e.g. ship deck)
7	- Protected against the effect of immersion between 15cm and 1m
8	- Protected against long periods of immersion under pressure

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