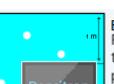


Densitron, together with our customers, have developed display solutions which meet specific IP and IK environmental specifications.

Ingress protection class of enclosures is given in the form of an IP classification, a two digit coding which is depicted below. Densitron's display solutions are tested according to IEC 529 or EN 60529. The latter requires the second digit to be tested from class 6 upwards separately to each level of class. The double marking IP 66 / IP 67 indicate that the actual tests have been made for both levels.

The European standard for enclosures, EN 50298 also includes IK impact tests. This test is described in EN50102. IK serves as an excellent reference for impact resistance of a touch screen.

First numeral Protection against solid bodies	Second numeral Protection against liquids	Third numeral Mechanical protection
IP	IP	IK
0  No protection	0  No protection	0  No protection
1  Protected against solid bodies greater than 50 mm (e.g. involuntary hand contact)	1  Protected against dripping water (condensation)	01  Impact energy 0.150 J.
2  Protected against solid bodies greater than 12 mm (e.g. fingers)	2  Protected against falling water up to 15° from the vertical	02  Impact energy 0.200 J.
3  Protected against solid bodies greater than 2.5 mm (e.g. tools, cables...)	3  Protected against rain water up to 60° from the vertical	03  Impact energy 0.350 J.
4  Protected against solid bodies greater than 1 mm (e.g.: small tools, fine cables...)	4  Protected against water splashing in all directions.	04  Impact energy 0.500 J.
5  Protected against dust (no harmful deposits)	5  Protected against water jets from all directions	05  Impact energy 0.700 J.
6  Fully protected against dust	6  Protected against wave-like water jets from all directions	06  Impact energy 1.00 J.
	7  Protected against immersion	07  Impact energy 2.00 J.
	8  Beyond 1m Protected against the effects of prolonged immersion under water	08  Impact energy 5.00 J.
		09  Impact energy 10.00 J.
		10  Impact energy 20.00 J.