## IP and IK Classifications

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Ingress protection class of enclosures is given in form of IP classification, a two digit coding which is shown below.

We have tested the enclosures according to IEC 520 or the newer EN 60529 4:1992. The latter requires the second digit to be tested from class 6 upwards separately to each level of class, thus the double marking IP 66 / IP 67 indicates that the actual tests have been made for both levels.

The new European standard for enclosures. EN 60439-6 Pro is on its way and will include the new IK impact test, too. This test is described in EN 60439/50102.

The new European standard for enclosures, EN 60439-							
FIRST NUMBER		SECOND NUMBER			IK CODE		
Protection against solid objects		Protection against liquids			Protection against mechanical impacts		
IP	TEST	IP		TEST	IK	nr agamet moon	TEST
0	No protection	0	1	No protection	00	170	No protection
	Protected against solid objects up to 50 mm e.g. accidental touch by hands.			Protected against vertically falling drops of water.	01-05		impact < 1 joule
	Protected against solid objects up to 12 mm e g fingers.		<i>#</i>	Protected against direct sprays of water up to 15 ° from the vertical.	06	500 g 20 cm	impact 1 joule
3	Protected against solid objects over 2,5 mm (tools + small wires).		3	Protected against sprays to 60° from the vertical .	07	500 g 40 cm	impact 2 joule
	Protected against solid objects over 1 mm (tools + small wires).	7	4	Protected against water sprayed from all directions – limited ingress permitted.	08	1.7 kg 29,5 cm	impact 5 joule
5	Protected against dust – limited ingress permitted (no harmful deposit.)	4	5	Protected against low pressure jets of water from all directions - limited ingress permitted.	09	5 kg 20 cm	impact 10 joule
6	Totally protected against dust		6	Protected against strong jets of water e g for use on ship- decks - limited ingress permitted.	10	5 kg	impact 20 joule
		15 cm m	7	Protected against the affects of immersion between 15 cm and 1 m.			
		1 m	8	Protected against long periods of immersion under pressure.			