

The ideal case for all applications. Be it for indoor use, as table-top unit or wall-mounting system, or for the mobile application as hand-held-box – OKW case systems offer a high standard of quality to protect your electronic equipment.

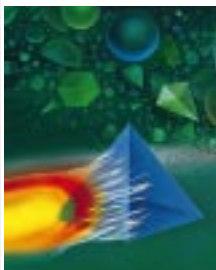
Our products with specification of protection classes have a particular design and are tested as unique object VDE and/or according to IEC 529. When performing

Each type of protection is specified by a code composed of the standard index IP and two digits defining the degree of protection (example: IP 65).

The following table contains the protection classes which can at least be achieved by OKW. You will find an explanation for the protection classes on the opposite page.

PROTECTION CLASSES

IP...	Product Group	starting on page
< IP41	Euro Cases	147
	Flat-Pack Cases	169
	Lux Cases	137
	Hand-Held-Boxes	39
	Potting Boxes	199
	Motec Cases	105
	DIN-Modular Cases type A	181
	DIN-Modular Cases type B without protection cover	189
	Desk Cases	123
	Shell-Type Cases type V/O; G without sealing kit	91
	Smart-Cases XS	13
	Plug Cases	177
	Keyboard Housings	133
	Toptec Cases	165
	Wall-Mounting Cases A9624... with front panel	65
IP41	Smart-Cases M	13
	Wall-Mounting Cases S with front panel	68
IP53	DIN-Modular Cases type B with protection cover	189
IP54	Datec-Controls with sealing kit	31
	Datec-Pocket-Boxes S with sealing	19
	Datec-Terminals with sealing	111
	Vario-Boxes with front panel	47
	Wall-Mounting Cases S with transparent cover	68
IP64	Vario-Boxes with front frame and front panel	47
	Vario-Boxes with frame cover	47
IP65	Datec-Keyboards with sealing	129
	Datec-Mobil-Boxes with sealing kit	25
	Datec-Pocket-Boxes L and M with sealing	19
	Robust-Boxes with sealing	77
	Shell-Type Cases type G with sealing kit	91
	Vario-Boxes with cover	47
IP66	Uni-Resist-Boxes	85



PROTECTION CLASSIFICATIONS

According to DIN 40 050 / IEC 529 – Definition of indexes



DEGREES OF CONTACT PREVENTION AND GUARDING AGAINST FOREIGN MATTER			DEGREES OF WATER PROTECTION		
First index digit	EXTENT OF PROTECTION		Second index digit	EXTENT OF PROTECTION	
	PROTECTION	EXPLANATION		PROTECTION	EXPLANATION
0	no protection	—	0	no protection	—
1	against large foreign bodies 	Protection of persons from accidental large-area direct contact with active or internal moving parts (e.g. hand contact), but no guard against intentional access to such parts. Protection of the object from access of solid foreign matter larger than 50 mm in diameter.	1	against water dripping vertically 	Water drops falling vertically must not have any harmful effect.
2	against medium-size foreign bodies 	Protection of persons from finger contact with active or internal moving parts. Protection of the object from access of solid foreign matter larger than 12 mm in diameter.	2	against water dripping up to 15° 	Water drops falling at any angle up to 15° with the vertical must not have any harmful effect.
3	against small foreign bodies 	Protection of persons from touching active or internal moving parts with tools, wires or similar foreign bodies thicker than ø 2.5 mm. Protection of the object from access of solid foreign matter larger than 2.5 mm in diameter.	3	against spray water 	Water hitting the object at any angle up to 60° with the vertical must not have any harmful effect.
4	against granular foreign bodies 	Protection of persons from touching active or internal moving parts with tools, wires or similar foreign matter > than ø 1.0 mm.	4	against spray water 	Water splashing against the object from all directions must not have any harmful effect.
5	from deposit of dust 	Total protection of persons from touching voltage-carrying or internal moving parts. Protection of the object from harmful deposit of dust. Access of dust is not completely prevented, but dust is prevented from access in a quantity impairing the functioning.	5	against jet water 	A jet of water nozzled against the object from all directions must not have any harmful effect.
6	from access of dust 	Total protection of persons from touching voltage-carrying or internal moving parts. Protection of the object from access of dust.	6	against flooding 	Water of temporary flooding, as by heavy seas, must not enter the object in any harmful quantity.
			7	in dipped state 	If the object is dipped into water (0.15-1m) under the defined conditions of pressure and time, water must not enter it in any harmful quantity.
			8	in submerged state 	If the object is submerged in water under defined extremely conditions, water must not enter in any harmful quantity.