

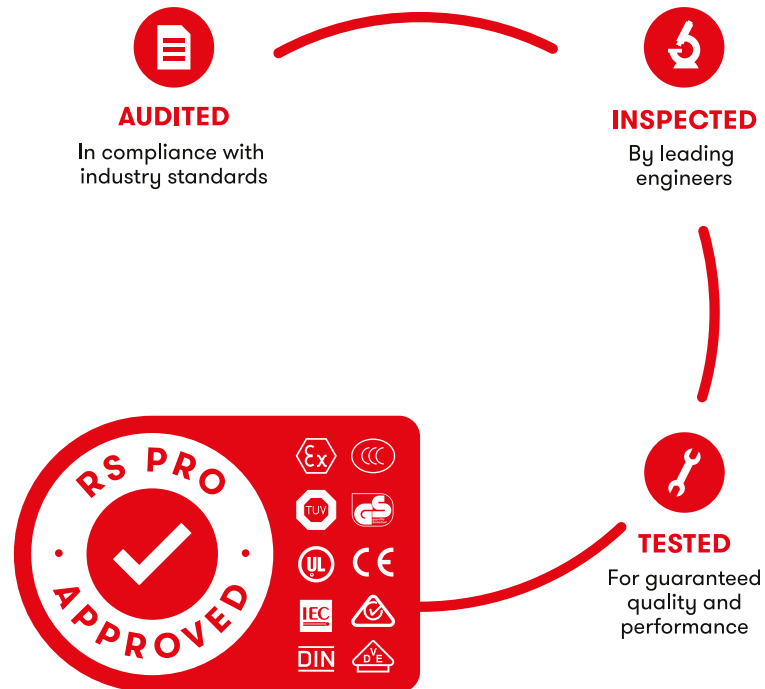
THE RS PRO SEAL OF APPROVAL

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A sure sign of quality

Since 1937, RS PRO has had a passion for industrial parts. More importantly, we believe that every part matters, because the quality of your applications will always be linked to the quality of every part going into them.

This is why we rigorously test every part against demanding industry standards to gain the RS PRO Seal of Approval.



RS PRO ENCLOSURES RANGE GUIDE

Our own brand, RS PRO, brings you over 1,000 enclosures that have been tested and approved to bring you quality that you can rely on.



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SELECTING THE RIGHT RS PRO ENCLOSURE

Enclosures provide the main source of protection for components or systems housed within and therefore selecting the right housing is essential.

The Material

Plastic: There are a variety of plastic types, from ABS to glass reinforced, depending on the application. Plastic enclosures offer design flexibility, higher functionality, better insulation, lightweight and radio frequency permeability and come in a wide range of colours. Ideal for electronic applications.

Metal: Greater mechanical strength, better resistance to ultraviolet (UV) radiation, wide temperature range and EMC characteristics. Ideal for industrial applications. There are a number of metal types, from coated steel, aluminum and stainless steel dependent on application and environment.

Environmental Considerations

From airbourne debris, temperature and UV rays, environmental elements can have a significant impact on how an enclosure will perform over the years. Consideration needs to be taken into whether the enclosure will be located indoors or outdoors, the weather, UV and harsh chemical sprays.

Electromagnetic Compatibility (EMC)

Plastic enclosures often have low EMC characteristics whereas metal enclosures have high EMC characteristics. This means that metal enclosures should be used when electromagnetic compatibility is very important.

The Ingress Protection (IP) Rating

The IP categories specify the extent to which the enclosure is sealed. The rating indicates the level of protection from dust and water. The IP rating consists of a two-digit number. The first digit indicates level of protection against solid objects, whilst the second is for the ingress of water.

First Digit: Solids

Level	Protection	Effective against
0	Not protected	No protection against contact and ingress of objects.
1	>50mm	Any large surface of the body, such as the back of the hand, but no protection against deliberate contact with a body part.
2	>12.5mm	Fingers or similar objects.
3	>2.5mm	Tools, thick wires, etc.
4	>1mm	Most wires, screws etc.
5	Dust Protected	Ingress of dust is not entirely prevented but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment; complete protection against contact.
6	Dust Tight	No ingress

Second Digit: Liquids

Level	Protection	Effective against
0	Not Protected	-
1	Dripping water	Dripping water (vertically falling drops) shall have no harmful effect.
2	Dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the enclosure is tilted at an angle up to 15° from its normal position.
3	Spraying water	Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect.
4	Splashing water	Water splashing against the enclosure from any direction shall have no harmful effect.
5	Water jets	Water projected by a nozzle (6.3mm) against enclosure from any direction shall have no harmful effects.
6	Powerful water jets	Water projected in powerful jets (12.5mm nozzle) against the enclosure from any direction shall have no harmful effects.
7	Immersion up to 1m	Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1m of submersion).
8	Immersion beyond 1m	The equipment is suitable for continuous immersion in water under conditions which shall be specified by the manufacturer. Normally, this will mean that the equipment is hermetically sealed. However, with certain types of equipment, it can mean that water can enter but only in such a manner that it produces no harmful effects.

The Impact Protection (IK) Rating

Degree of protection provided by enclosures for electrical equipment against external mechanical impacts in accordance with IEC 62262.2002 and IEC 60068-2-75:1997.

IK01	Protected against 0.14 joules impact.	Equivalent to impact 0.25 kg mass dropped from 56 mm above impacted surface.
IK02	Protected against 0.2 joules impact.	Equivalent to impact 0.25 kg mass dropped from 80 mm above impacted surface.
IK03	Protected against 0.35 joules impact.	Equivalent to impact 0.25 kg mass dropped from 140 mm above impacted surface.
IK04	Protected against 0.5 joules impact.	Equivalent to impact 0.25 kg mass dropped from 200 mm above impacted surface.
IK05	Protected against 0.7 joules impact.	Equivalent to impact 0.25 kg mass dropped from 280 mm above impacted surface.
IK06	Protected against 1 joule impact.	Equivalent to impact 0.25 kg mass dropped from 400 mm above impacted surface.
IK07	Protected against 2 joules impact.	Equivalent to impact 0.5 kg mass dropped from 400 mm above impacted surface.
IK08	Protected against 5 joules impact.	Equivalent to impact 1.7 kg mass dropped from 300 mm above impacted surface.
IK09	Protected against 10 joules impact.	Equivalent to impact 5 kg mass dropped from 200 mm above impacted surface.
IK10	Protected against 20 joules impact.	Equivalent to impact 5 kg mass dropped from 400 mm above impacted surface.

DESKTOP ENCLOSURES



• ABS

NEW PRODUCTS ADDED

DIN RAIL ENCLOSURES



• Polycarbonate • ABS

NEW PRODUCTS ADDED

ENCLOSURE ACCESSORIES



• Document Pocket • Inspection Window
• Earthing Kits • Mounting Kits
• Feet & Handles • Seals
• Gaskets

NEW PRODUCTS ADDED

19" RACK & TRANSIT CASES



• Rack Cable Management
• Rack Fitting Cases & Enclosures
• Rack Mounting Hardware
• Rack Panels
• Rackmount Enclosures
• Rackmount Transit Cases
• Server Cabinet Accessories
• Server Cabinets
• Server Rack Drawers
• Server Rack Shelves
• Server Racks
• Subracks

NEW PRODUCTS ADDED

GENERAL PURPOSE ENCLOSURES



• ABS • Fibreglass
• Aluminium • PET
• Aluminium Alloy • Polycarbonate
• Cold Rolled Steel • Polyester

NEW PRODUCTS ADDED

HAND HELD ENCLOSURES



• ABS

• Polystyrene

NEW PRODUCTS ADDED

INSTRUMENT CASES



• ABS • Cold Rolled Steel
• Aluminium • Noryl
• Anodised Aluminium • Plastic
• Steel

POWER SUPPLY CASES



• Zinc Plated Steel

PUSHBUTTON ENCLOSURES



• Aluminium • Stainless Steel
• Plastic

NEW PRODUCTS ADDED

WALL BOXES



• ABS • 304 Stainless Steel
• Glass Reinforced Plastic • 316 Stainless Steel
• Steel

NEW PRODUCTS ADDED