

VESDA IP66 ENCLOSURE

020-050-E



Introduction

To complement the VESDA range of detectors, displays and programmers, an IP66 enclosure is available.

This enclosure is built to accommodate either a VESDA-E VEU, VESDA-E VEP, VESDA-E VES or VESDA VLF detector. The enclosure has a hinged door for easy access for installation and maintenance which includes a glass window to view the onboard display. It includes predrilled holes for inlet and exhaust ports and cable entries so that installation of a detector is a simple process requiring minimum tools.

Moreover the enclosure is supplied with pipe fitting to ensure that the IP66 integrity of the enclosure is maintained.



IP66 rating (and NEMA)

IP is defined under an international classification, IEC 60529, and characterizes levels of protection for electrical enclosures. The protection can be from fingers, dust or water. The standard classification designation is 'IP' followed by two numbers which designate the level of protection. The first digit of the number designates protection from solid objects and the second digit designates protection from moisture. The levels for the first digit vary from 1 through 6 and the second digit 1 through 8 where a larger number means increased protection. The table below summarizes the various IP designations.

Given that IEC 60529 does not specify degrees of protection against mechanical damage of equipment, risk of explosions, or conditions such as moisture (produced for example by condensation), corrosive vapours, fungus, or vermin; and that the NEMA 250 Standard does test for environmental conditions such as corrosion, rust, icing, oil, and coolants, there is no direct correlation between the two of them. However, it may be considered that an IP66 equates to a NEMA 4.

First Digit		Second Digit
	Protection From Solid Objects	Protection From Water
0	No protection	No protection
1	Protection against objects >50mm	Protection against vertically dripping water
2	Protection against objects >12.5mm	Protection against water when tilted +/- 15°
3	Protection against objects >2.5mm	Protection against spraying water
4	Protection against objects >1.0mm	Protection against splashing water
5	Dust Protected	Protection against jetting water
6	Dust Tight	Protection against heavy jetting water
7	N/A	Protection against temporary immersion
8	N/A	Protection against continuous immersion

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TECHNICAL SPECIFICATIONS



IP66 Enclosure Specifications

Dimensions (H x W x D)	320 mm x 450 mm x 153 mm (12.60 in x 17.72 in x 6.02 in)
Construction	Fully welded 1.5 mm mild steel construction with a black lockable wing lock. Fully welded 2 mm glazed mild steel door.
Colour	RAL 7047 powder coat
Mounting	External mounting lugs provided: 10 mm
	Fixing centres: <ul style="list-style-type: none">• 344 mm (H) x 412 mm (W) or 266 mm (H) x 490 mm (W)• 13.54 in (H) x 16.22 in (W) or 10.47 in (H) x 19.29 in (W)
	Normal Orientation: The IP66 enclosure is normally mounted with the hinge on the right. Other orientations are possible with the hinge on the right or the "inverted" orientation with the hinge on the left.
Cable access	25mm holes (glands not provided)
Pipe connection	25 mm PVC conduit connectors
Weight	Approx. 11.5 kg (including a detector)

IP66 Enclosure Dimensions

