VESDA IP66 Enclosure

020-050

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 VLP, VESDA VLS, VESDA VLC or VESDA VLF detector, or a Remote Module for a programmer or Display. The enclosure has a hinged door for easy access for installation and maintenance which includes a glass window to view an onboard display. It includes predrilled holes for inlet and exhaust ports and cable entries so that installation of a Detector/ Remote Module is a simple process requiring minimum tools.

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.

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	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

IP66 enclosure specifications

Dimensions (H x W x D):

- 300 mm x 400 mm x 140 mm)
  (11.81 in x 15.75 in x 5.51 in)

Construction:

- Fully welded 1.5 mm steel (SS 1304) construction with a black lockable wing lock
- Fully welded 2 mm glazed steel door

Colour:

- RAL 7035 powder coat

Mounting:

- External mounting lugs provided: 10 mm
- Fixing centres:
  - 340 mm (H) x 360 mm (W)
  - 13.38 in (H) x 14.17 in (W)
- Orientation:
  - The IP66 enclosure can be mounted in two orientations; the “normal” orientation 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:

- 25mm PVC conduit connectors

Weight:

- Approx. 11.5 kg (including a detector)

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*Depending upon local codes and standards †Operation outside these parameters will reduce detector life.

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