

# VM Series

## configuration options and specifications

### \*\* Suffix

**No Suffix:** Opaque cover with four non-metallic corner screws

**H:** Opaque cover with four non-metallic corner screws, hinged externally

**K:** Opaque cover with four non-metallic corner screws and knockouts in the base

**CT:** Transparent cover with four non-metallic corner screws

**CH:** Transparent cover with four non-metallic corner screws, hinged externally

**CTK:** Transparent cover with four non-metallic corner screws and knockouts in the base

**PBS:** 30.5 mm NEMA sized push-button holes and four non-metallic corner screws

**PBM:** 22.5 mm IEC sized push-button holes and four non-metallic corner screws

### Features

- Enclosures are maintenance free and corrosion resistant.
- Bases and opaque covers are made from a thermoplastic blend of polyester and polycarbonate that can withstand continuous temperatures up to 280°F (138°C).
- Transparent covers are made from polycarbonate that can withstand continuous temperatures from -13°F to +104°F (-25°C to +40°C).
- RAL 7035 light-gray finish inside and out.
- Captivated, non-metallic cover screws secure in the enclosure corners, and are outside of the gasket path to prevent water/dust intrusion into enclosure.
- Continuous gaskets made of polyurethane foam guarantee optimal integrity.
- Tongue and groove gasket fitting to ensure a tight and reliable seal.
- Molded internal bosses present for securing back panel or DIN rail, as well as direct component mounting.
- K and CTK suffix enclosures have knockouts present in the base to facilitate cable/conduit entry.
- All enclosures can be easily modified to customer specifications.

### Applications

VM Enclosures are designed for use as insulated electrical junction boxes, terminal wiring boxes, instrument housings, electrical control boxes and push-button housings in wet, dusty and corrosive environments.

### Approvals

UL 508A Listed; Type 3, 3R, 4, 4X, 12, 13; File No. E192121  
 cUL Listed per CSA C22.2 No 94; Type 3, 3R, 4, 4X, 12, 13; File No. E192121  
 Enclosure flammability per UL 508A

NEMA/EEMAC Type 3, 3R, 4, 4X, 12, 13  
 IEC 60529, IP66  
 Meets NEMA Type 3RX requirements



Opaque Cover Enclosures (VM)	3
Opaque Cover Enclosures with Knockouts (VM K)	3
Transparent Cover Enclosures (VM CT)	5
Transparent Cover Enclosures with Knockouts (VM CTK)	5
Push-button Unit Enclosures	7
Back Plates	9
Window Kits	9
Accessories	10



**\*\* Suffix**

**No Suffix:** Opaque cover with four non-metallic corner screws

**H:** Opaque cover with four non-metallic corner screws, hinged externally

**K:** Opaque cover with four non-metallic corner screws and knockouts in the base



Part Number	Exterior Dimensions	Interior Dimensions	Weight	Back Plate	Knockouts
	H x W x D Inches (mm)	H x W x D Inches (mm)	Lbs (kg)	N: Non-Metallic	(Quantity) Size
VM433	4.36 x 3.18 x 3.66 (111 x 81 x 93)	4.01 x 2.82 x 3.31 (102 x 72 x 84)	.20 (.09)	VMBP43A	
VM533 VM533K	5.03 x 3.06 x 3.02 (128 x 78 x 77)	4.69 x 2.72 x 2.72 (119 x 69 x 69)	.26 (.12)	VMBP53A	(6) .44"-.85"
VM534 VM534K	5.03 x 3.06 x 4.02 (128 x 78 x 102)	4.69 x 2.72 x 3.72 (119 x 69 x 69)	.31 (.14)	VMBP53A	(6) .44"-.85"
VM553 VM553K	5.03 x 5.03 x 3.02 (128 x 128 x 77)	4.69 x 4.69 x 2.72 (119 x 119 x 69)	.43 (.20)	VMBP55A	(8) .44"-.85"
VM554 VM554K	5.03 x 5.03 x 4.02 (128 x 128 x 102)	4.69 x 4.69 x 3.72 (119 x 119 x 94)	.48 (.22)	VMBP55A	(8) .44"-.85"
VM733	6.72 x 3.17 x 3.61 (171 x 81 x 92)	6.37 x 2.82 x 3.33 (162 x 72 x 85)	.36 (.16)	Not Available	
VM753 VM753K	7.00 x 5.03 x 2.97 (178 x 128 x 75)	6.65 x 4.69 x 2.72 (169 x 119 x 69)	.56 (.25)	VMBP75A VMBP75N	(6) PG13.5/9 (4) PG21/16
VM754 VM754H VM754K	7.00 x 5.03 x 4.02 (178 x 128 x 102)	6.65 x 4.69 x 3.72 (169 x 119 x 94)	.61 (.28)	VMBP75A VMBP75N	(6) PG13.5/9 (4) PG21/16
VM755 VM755K	7.00 x 5.03 x 5.02 (177 x 128 x 128)	6.65 x 4.69 x 4.72 (169 x 119 x 120)	.66 (.30)	VMBP75A VMBP75N	(6) PG13.5/9 (4) PG21/16
VM773 VM773K	7.00 x 7.00 x 3.02 (178 x 178 x 77)	6.65 x 6.65 x 2.72 (169 x 169 x 69)	.83 (.38)	VMBP77A	(12) PG13.5/9
VM775 VM775K	7.00 x 7.00 x 5.02 (178 x 178 x 128)	6.65 x 6.65 x 4.72 (169 x 169 x 120)	.93 (.42)	VMBP77A	(12) PG13.5/9
VM776 VM776K	7.00 x 7.00 x 6.02 (178 x 178 x 153)	6.65 x 6.65 x 5.72 (169 x 169 x 145)	.98 (.44)	VMBP77A	(12) PG13.5/9
VM933	9.09 x 3.18 x 3.61 (222 x 81 x 92)	8.74 x 2.84 x 3.33 (222 x 72 x 85)	.46 (.21)	VMBP93A	

**\*\* Suffix**

**CT:** Transparent cover with four non-metallic corner screws

**CTH:** Transparent cover with four non-metallic corner screws, hinged externally

**CTK:** Transparent cover with four non-metallic corner screws and knockouts in the base



Part Number	Exterior Dimensions	Interior Dimensions	Weight Lbs (kg)	Back Plate	Knockouts (Quantity) Size
	H x W x D Inches (mm)	H x W x D Inches (mm)		*A: Aluminum *N: Non-Metallic	
VM533CT VM533CTH VM533CTK	5.03 x 3.06 x 3.02 (128 x 78 x 77)	4.69 x 2.72 x 2.72 (119 x 69 x 69)	.26 (.12)	VMBP53A	(6) .44"-.85"
VM534CT VM534CTH VM534CTK	5.03 x 3.06 x 4.02 (128 x 78 x 102)	4.69 x 2.72 x 3.72 (119 x 69 x 69)	.31 (.14)	VMBP53A	(6) .44"-.85"
VM553CT VM553CTK	5.03 x 5.03 x 3.02 (128 x 128 x 77)	4.69 x 4.69 x 2.72 (119 x 119 x 69)	.43 (.20)	VMBP55A	(8) .44"-.85"
VM554CT VM554CTK	5.03 x 5.03 x 4.02 (128 x 128 x 102)	4.69 x 4.69 x 3.72 (119 x 119 x 94)	.48 (.22)	VMBP55A	(8) .44"-.85"
VM753CT VM753CTK	7.00 x 5.03 x 2.97 (178 x 128 x 75)	6.65 x 4.69 x 2.72 (169 x 119 x 69)	.56 (.25)	VMBP75A VMBP75N	(6) PG13.5/9 (4) PG21/16
VM754CT VM754CTH VM754CTK	7.00 x 5.03 x 4.02 (178 x 128 x 102)	6.65 x 4.69 x 3.72 (169 x 119 x 94)	.61 (.28)	VMBP75A VMBP75N	(6) PG13.5/9 (4) PG21/16
VM755CT VM755CTK	7.00 x 5.03 x 5.02 (177 x 128 x 128)	6.65 x 4.69 x 4.72 (169 x 119 x 120)	.66 (.30)	VMBP75A VMBP75N	(6) PG 13.5/9 (4) PG21/16
VM773CT VM773CTK	7.00 x 7.00 x 3.02 (178 x 178 x 77)	6.65 x 6.65 x 2.72 (169 x 169 x 69)	.83 (.38)	VMBP77A	(12) PG13.5/9
VM775CT VM775CTK	7.00 x 7.00 x 5.02 (178 x 178 x 128)	6.65 x 6.65 x 4.72 (169 x 169 x 120)	.93 (.42)	VMBP77A	(12) PG13.5/9
VM776CT VM776CTK	7.00 x 7.00 x 6.02 (178 x 178 x 153)	6.65 x 6.65 x 5.72 (169 x 169 x 145)	.98 (.44)	VMBP77A	(12) PG13.5/9

**Configurations**

**PBS:** 30.5 mm NEMA sized push-button holes and four non-metallic corner screws

**PBM:** 22.5 mm IEC sized push-button holes and four non-metallic corner screws



Part Number	Exterior Dimensions H x W x D Inches (mm)	Interior Dimensions H x W x D Inches (mm)	Weight Lbs (kg)	Back Plate *A: Aluminum *N: Non-Metallic	Push-button Holes (Quantity) Size
VM433-PBS1 VM433-PBM1	4.36 x 3.18 x 3.66 (111 x 81 x 93)	4.01 x 2.82 x 3.31 (102 x 72 x 84)	.20 (.09)	VMBP43A	(1) 30.5 (1) 22.5
VM533-PBM2	5.03 x 3.06 x 3.02 (128 x 78 x 77)	4.69 x 2.72 x 2.72 (119 x 69 x 69)	.26 (.12)	VMBP53A	(2) 22.5

Part Number	Exterior Dimensions H x W x D Inches (mm)	Interior Dimensions H x W x D Inches (mm)	Weight Lbs (kg)	Back Plate *A: Aluminum *N: Non-Metallic	Push-button Holes (Quantity) Size
VM733-PBS2 VM733-PBM3 VM733-PBS1	6.72 x 3.17 x 3.61 (171 x 81 x 92)	6.37 x 2.82 x 3.33 (162 x 72 x 85)	.36 (.16)	Not Available	(2) 30.5 (3) 22.5 (1) 30.5
VM755-PBS4 VM755-PBM6	7.00 x 5.03 x 5.02 (177 x 128 x 128)	6.65 x 4.69 x 4.72 (169 x 119 x 120)	.66 (.30)	VMBP75A VMBP75N	(4) 30.5 (6) 22.5
VM775-PBS4 VM775-PBM9 VM775-PBM4 VM775-PBM6	7.00 x 7.00 x 5.02 (178 x 178 x 128)	6.65 x 6.65 x 4.72 (169 x 169 x 120)	.93 (.42)	VMBP77A	(4) 30.5 (9) 22.5 (4) 22.5 (6) 22.5
VM933-PBS3 VM933-PBM4 VM933-PBM5	9.09 x 3.18 x 3.61 (171 x 81 x 92)	8.74 x 2.84 x 3.33 (222 x 72 x 85)	.46 (.21)	VMBP93A	(3) 30.5 (4) 22.5 (5) 22.5

Custom push button solutions available...

Rear Mounting Panel/Plate	Part Number	Dimensions	Weight	Enclosure
Panels are available in the following materials: • Aluminum - 0.08-in (2mm) thickness • Phenolic (composite material) - 0.1875 in (4.8mm) thickness		<b>H x W Inches (mm)</b>	<b>Lbs (kg)</b>	<b>Fits Size (Inches)</b>
	VMBP53A	4.21 x 2.25 (107 x 57)	.11 (.05)	5 x 3
	VMBP55A	4.21 x 4.21 (107 x 107)	.18 (.08)	5 x 5
	VMBP75A VMBP75N	6.18 x 4.22 (157 x 107)	.25 (.11) .22 (.10)	7 x 5
	VMBP77A	6.18 x 6.18 (157 x 157)	.34 (.15)	7 x 7
	VMBP93A	7.68 x 7.68 (157 x 157)	.50 (.22)	8 x 8



VM Series Mounting Bracket	Part Number	Description
<ul style="list-style-type: none"> <li>Constructed from Aluminum</li> <li>Set of 2 pieces</li> </ul> 	VMMB-5	Mounts directly to the rear of enclosures for wall mounting applications.

VM Hinged Window Kits:	Part Number	Dimensions	Viewing Area	Weight	Enclosure	
<ul style="list-style-type: none"> <li>Hinged instrument window constructed of polycarbonate</li> <li>Surface mounts on cover with sealing gasket present</li> </ul>		<b>H x W x D Inches (mm)</b>	<b>H x W Inches (mm)</b>	<b>Lbs (kg)</b>	<b>Fits Minimum Size (Inches)</b>	
		VM-CTHS23	2.36 x 3.03 x 1.26 (60 x 77 x 32)	1.65 x 1.97 (42 x 50)	.16 (.07)	5 x 3
		VM-CTHS43	3.78 x 3.03 x 1.26 (96 x 77 x 32)	3.07 x 1.97 (78 x 50)	.22 (.10)	7 x 5
		VM-CTHS53	5.12 x 3.03 x 1.26 (130 x 77 x 32)	4.41 x 1.97 (112 x 50)	.28 (.13)	7 x 5
		VM-CTHS73	6.42 x 3.03 x 1.26 (163 x 77 x 32)	5.71 x 1.97 (112 x 50)	.34 (.15)	7 x 5