



## ABE056

### VM600 Slimline

#### FEATURES

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- » From the Vibro-Meter® product line
- » 19" rack
- » Standard rack height of 1U
- » Robust metallic construction
- » Modular concept allows specific cards to be added for machinery protection or condition monitoring
- » Cabinet or panel mounting
- » Backplane supports power supply bus and open-collector relay bus
- » Embedded AC-DC or DC-DC power supply



**ABE056 Slimline**  
(shown housing an MPC4 card)

#### DESCRIPTION

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The VM600 Slimline is used to house hardware from the VM600 series of machinery protection systems and condition monitoring systems, from Meggitt Sensing Systems' Vibro-Meter® product line.

This rack is particularly suitable for industrial environments, where equipment must be permanently installed in 19" cabinets or panels. Each rack has a standard height of 1U and provides mounting space for one processing card pair and a relay card, from the VM600 series.

The rack has an integrated backplane that provides the electrical interconnections between the power supply unit and the installed cards.

Two dedicated versions of the power supply unit enable the rack to be powered using either an AC or a DC mains supply. Both power supplies support a wide input voltage range.

The rear of the rack gives access to the input/output cards. These contain screw terminal strips or connectors for the connection of transducers and conditioners, and for the input and output of various signals to an external control system.

VM600 systems (racks and cards) are generally pre-configured in the factory prior to delivery, so the system received is ready-to-use.



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**DESCRIPTION** *(continued)*

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Optionally, each card can be programmed on-site using the appropriate software package from Meggitt Sensing Systems: VM600 MPS1 or MPS2, or VibroSight®.

Any rack position not used by a plug-in card can be covered by a blank panel.

**SPECIFICATIONS**

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**General**

Housing material	: Zinc-plated painted sheet steel
Colour	: Grey white (RAL 9002)
Inflammability class	: UL 94 HB

**Power supply (AC-DC converter)**

Input voltage range	: 90 to 264 V <sub>AC</sub>
Input frequency range	: 47 to 63 Hz
Input current	: 2.5 A / 115 V <sub>AC</sub> or 1.5 A / 230 V <sub>AC</sub>
Output voltages	: +5 V <sub>DC</sub> and ±12 V <sub>DC</sub>

**Power supply (DC-DC converter)**

Input voltage range	: 18 to 58 V <sub>DC</sub>
Input current	: 3.0 A / 24 V <sub>DC</sub>
Output voltages	: +5 V <sub>DC</sub> and ±12 V <sub>DC</sub>

**Environmental**

According to IEC 60068.2 recommendations

Operating

• <i>Temperature</i>	: 0 to 65°C (32 to 149°F)
• <i>Humidity</i>	: 0 to 90% non-condensing

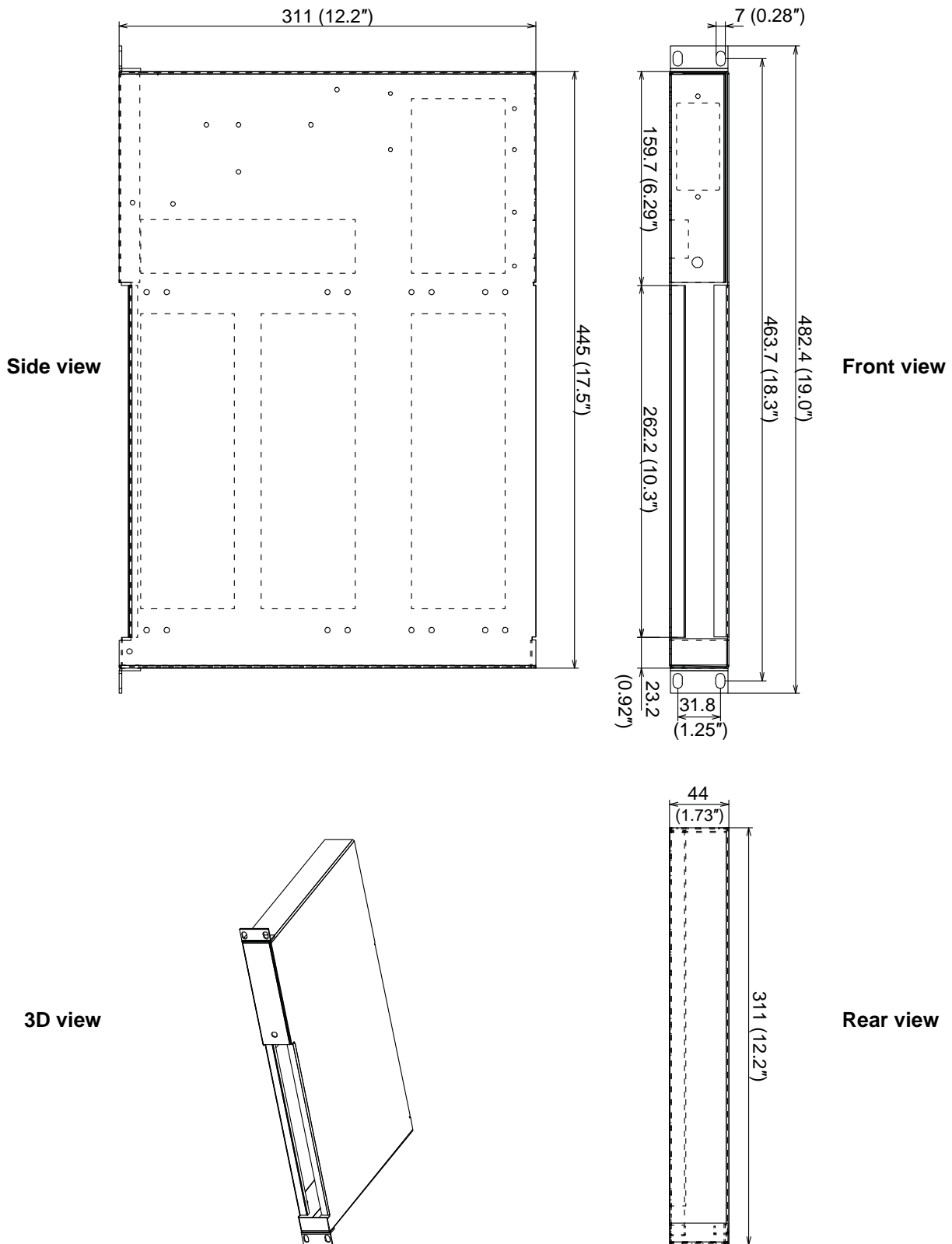
Storage

• <i>Temperature</i>	: -40 to 85°C (-40 to 185°F)
• <i>Humidity</i>	: 0 to 95% non-condensing

**Physical**

Height	: 43.65 mm
Width	: 482.6 mm
Depth	: 300.0 mm
Weight (approx.)	: 2.5 kg (including power supply and cards)

MECHANICAL DRAWINGS



Notes: All dimensions are in mm (in) unless otherwise stated.

ORDERING INFORMATION

ABE056 VM600 Slimline

Ordering number:

VM600SYS/ A 611- [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] B [ ] C [ ] [ ] [ ] [ ] [ ] [ ] D [ ] H [ ] [ ] [ ] [ ] Ax [ ] Bx [ ] Cx [ ] Zx [ ]

System configuration (A)	
None	000-000
Configuration PNR	xxx-xxx

For VM600 systems with a known configuration, Meggitt SA can perform configuration management and provide a pre-configured system. For a first order, xxx-xxx is used.

Type of configuration (B)	
None	0
Packet	1
Exact copy	2
New	3
Processing change	4 611-xxx-xxx
Cards removed	5 611-xxx-xxx
"Tag" (name) change	6 611-xxx-xxx
Cards added	7 611-xxx-xxx

As the B4 to B7 order options are changes to known configurations, the base configuration being used should be referenced in the order. For example, B4 611-xxx-xxx, where 611-xxx-xxx is the base configuration PNR.

Rack (C)	
ABE056 Slimline (1U)	56S

Power supply (D)	
24 VDC	2
110/220 VAC	5

Power supply lead (H)	
None	00
No plug (wire-end ferrules)	01
E+F plug as per CEE7/VII (Europe, Russia, Ukraine)	EU
G plug as per BS 1363 (UK)	UK
B plug as per IEC 60906-2 (US and CA)	US
J plug as per SEV 1011 (CH)	CH

Number of machinery protection card pairs (Ax)		
MPC4/IOC4T	AA	[ ]
MPC4SIL/IOC4T	AB	[ ]
AMC8/IOC8T	AC	[ ]
MPC1/IOC4T	AD	[ ]

Number of condition monitoring card pairs (Bx)		
XMV16/XIO16T	BB	[ ]
XMVS16/XIO16T	BC	[ ]

Number of combustion monitoring card pairs (Cx)		
XMC16/XIO16T	CA	[ ]

Number of relay cards (Zx)		
RLC16	ZA	[ ]

Notes

The ABE056 Slimline rack has slots for one processing card pair (front and rear of rack) and one relay card (rear of rack), so the Ax, Bx and Cx order options are mutually exclusive and a maximum of one of these can be installed in the rack. Similarly, a maximum of one Zx can also be installed. For example, an unconfigured VM600 Slimline rack with a +24 V<sub>DC</sub> power supply and a European power supply lead, 1 x MPC4 /IOC4T and 1 x RLC16 gives the following ordering number: VM600SYS/A611-000-000-B0-C56S-D2-HEU-AA1-ZA1.

Headquartered in the UK, Meggitt PLC is a global engineering group specializing in extreme environment components and smart sub-systems for aerospace, defence and energy markets.

Meggitt Sensing Systems is the operating division of Meggitt specializing in sensing and monitoring systems, which has operated through its antecedents since 1927 under the names of ECET, Endevco, Ferroperm Piezoceramics, Lodge Ignition, Sensorex, Vibro-Meter and Wilcoxon Research. Today, these operations are integrated under one strategic business unit called Meggitt Sensing Systems, headquartered in Switzerland and providing complete systems, using these renowned brands, from a single supply base.

The Meggitt Sensing Systems facility in Fribourg, Switzerland was formerly known as Vibro-Meter SA, but is now Meggitt SA. This site produces a wide range of vibration and dynamic pressure sensors capable of operation in extreme environments, leading-edge microwave sensors, electronics monitoring systems and innovative software for aerospace and land-based turbo-machinery.



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In this publication, a dot (.) is used as the decimal separator and thousands are separated by thin spaces. Example: 12345.67890.

## Sales offices

Meggitt Sensing Systems has offices in more than 30 countries. For a complete list, please visit our website.



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