



ABE 056

VM600 Slimline

FEATURES

- » 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 protection and condition monitoring
- » Cabinet or panel mounting
- » Backplane supports power supply bus and open collector relay bus
- » Embedded AC-DC or DC-DC converter



ABE 056 Slimline
(housing an MPC 4 card)

DESCRIPTION

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 VM600 series card pair.

The rack has an integrated backplane that provides the electrical interconnections between the power

supply unit, signal processing card, input/output and relay card.

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.



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DESCRIPTION *(continued)*

Racks are generally pre-configured in the factory prior to delivery, so the system received is ready-to-use. Optionally, each card can be programmed on-site using the appropriate software package from Meggitt Sensing Systems: MPS1 or MPS2, or VibroSight®.

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

SPECIFICATIONS

General

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

Power supply (AC-DC converter)

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

Power supply (DC-DC converter)

Input voltage range	: 18 to 58 V _{DC}
Input current	: 3.0 A / 24 V _{DC}
Output voltages	: +5 V _{DC} and ±12 V _{DC}

Environmental

According to IEC 60068.2 recommendations

Operating

- *Temperature* : 0 to 65°C (32 to 149°F)
- *Humidity* : 0 to 90% non-condensing

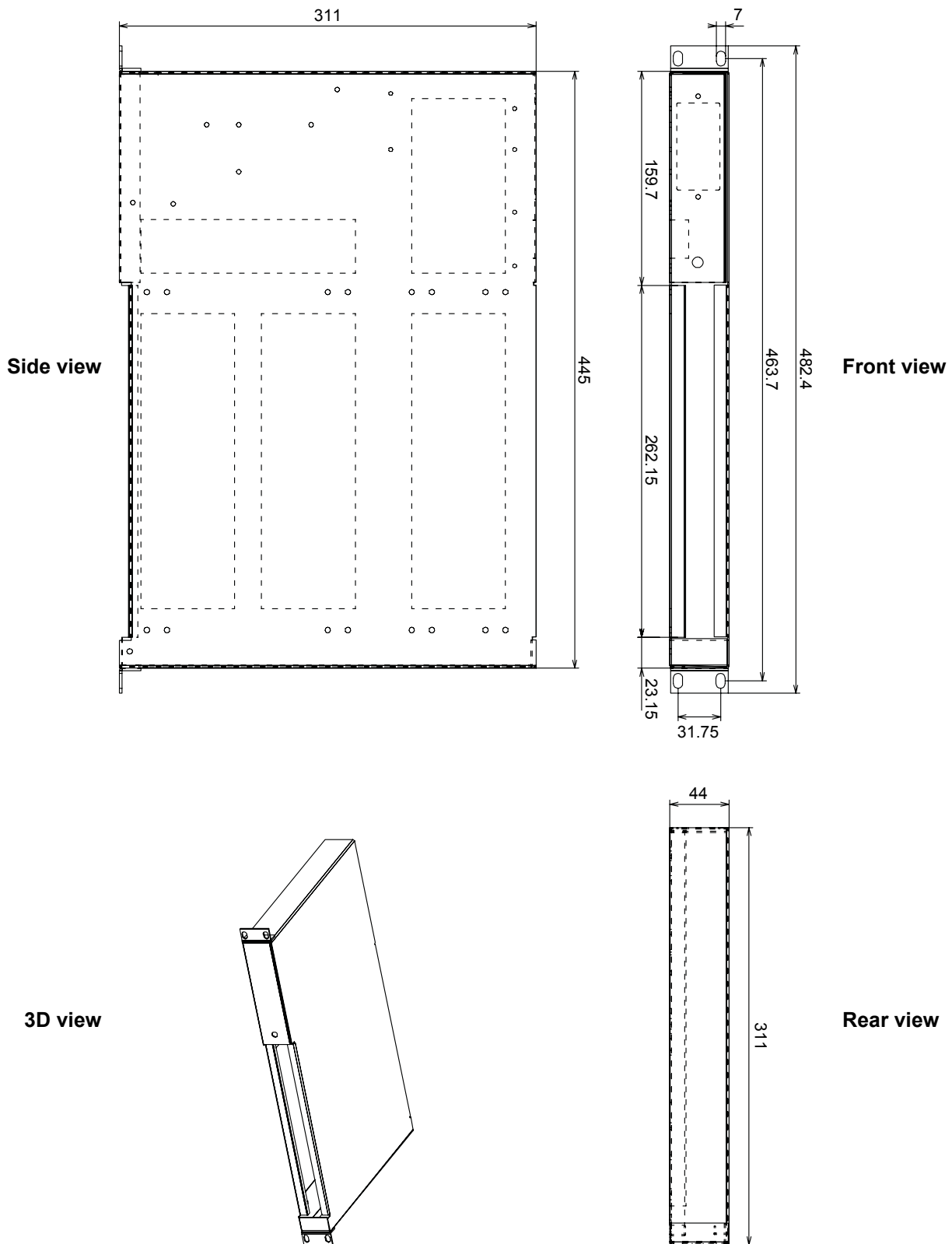
Storage

- *Temperature* : -40 to 85°C (-40 to 185°F)
- *Humidity* : 0 to 95% non-condensing

Physical

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

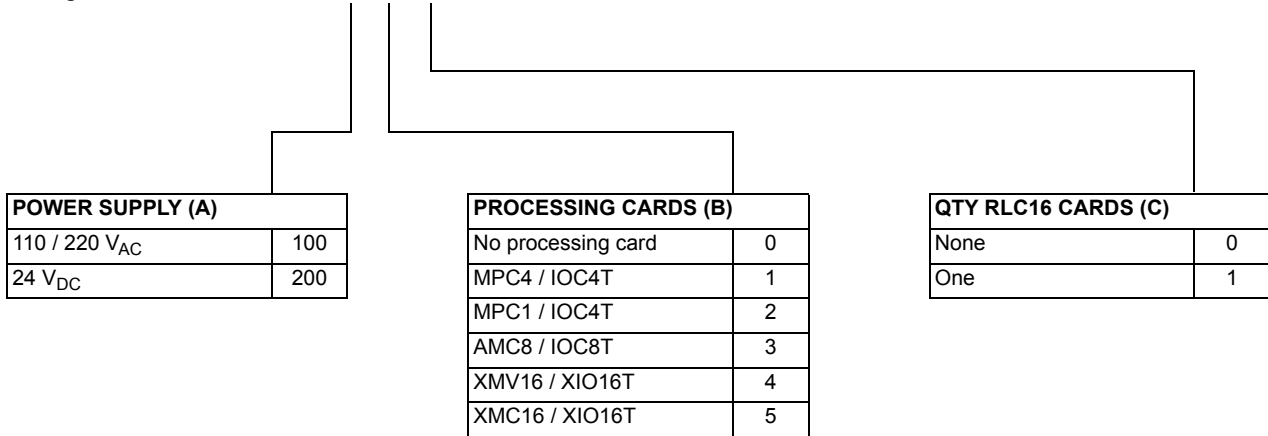
MECHANICAL DRAWINGS



ORDERING INFORMATION

ABE 056 VM600 Slimline – 19" rack

Ordering number: VM600-1U / A / B / C



Ordering example: A VM600 Slimline rack complete with

- 24 V_{DC} power supply
- 1 x MPC4 / IOC4T
- 1 x RLC16

gives the ordering number VM600-1U / 200 / 1 / 1.

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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, Endevo, 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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