



SATEC IEC61850 Voltage Ratio Module User Guide

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SATEC IEC61850 Voltage Ratio Module



SATEC Voltage Ratio Module for Direct Current Applications

Mounting, electrical connection, and settings of the VRM Module shall be made in accordance with all applicable laws and/or regulations and be performed by authorized personnel only.

Product Information

- Designed for connecting SATEC meters to DC voltage systems above meter rating (800V DC for PM130 PLUS and 800V DC for PRO EM235/PM335) ranging up to 1500V DC.
- Dimensions: 127 x 75 x 52 mm
- Weight: 80 grams
- Installation: DIN-Rail only

Electrical Installation

It is recommended that the distance between the SATEC VRM and SATEC meter should not exceed 2 meters, using cabling featuring minimum 600V insulation.

Usage Instructions

1. Mount the VRM module on a DIN-rail.
2. Connect the VRM module to the SATEC meter using cabling featuring minimum 600V insulation, ensuring the distance between them does not exceed 2 meters.
3. Set the correct ratio coefficient using PAS software (Basic Setup tab) before using the VRM module.

- Mounting, electrical connection and settings of the VRM Module shall be made in accordance with all applicable laws and/or regulations and be performed by authorized personnel only.
- SATEC VRM Module is designed for connecting SATEC meters to DC voltage systems above meter rating (800V DC for PM130 PLUS and 800V DC for PRO EM235/PM335) ranging up to 1500V DC.

Dimensions

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- Weight: 80 grams
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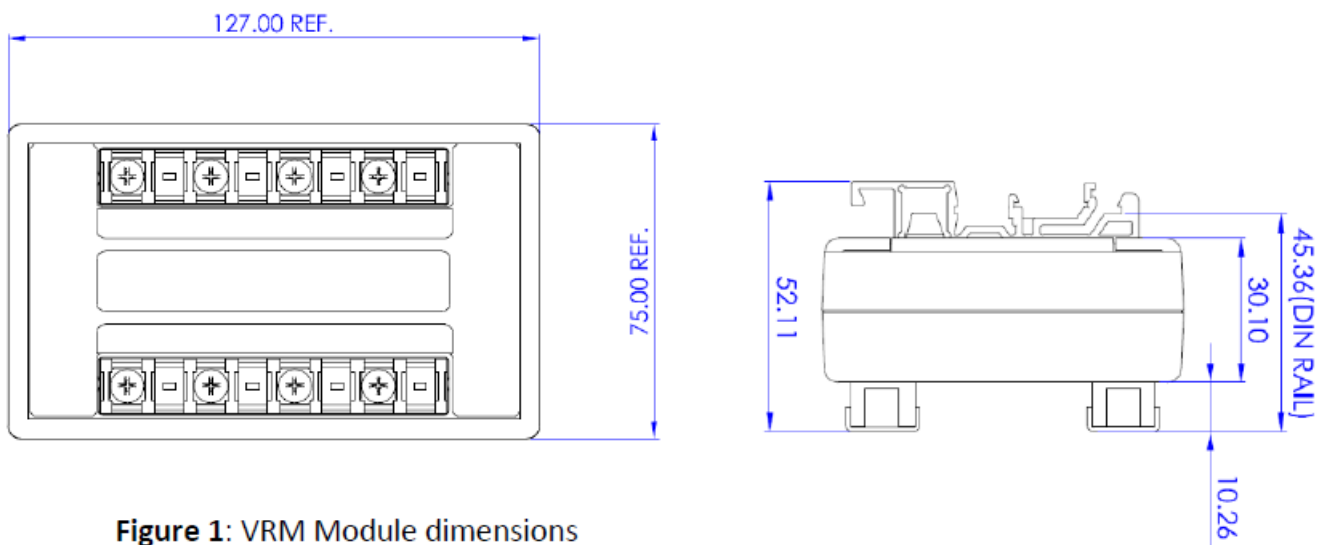


Figure 1: VRM Module dimensions



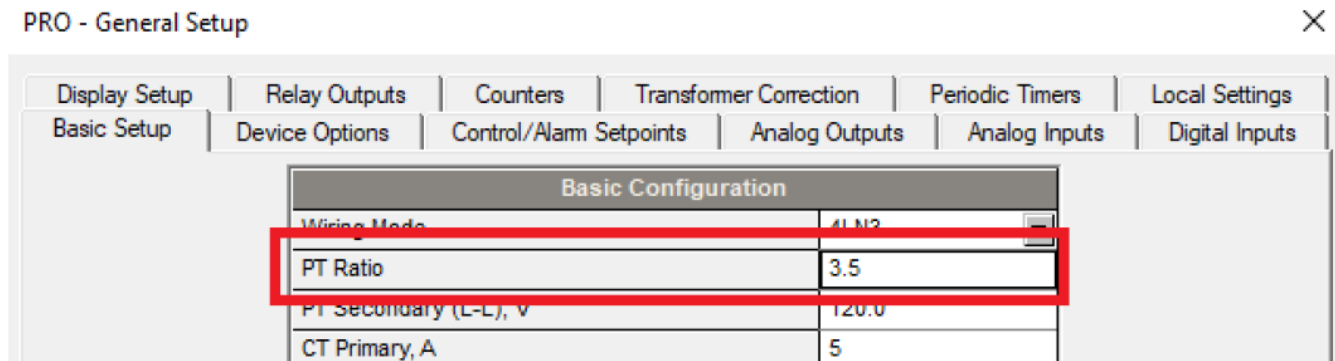
Figure 2: VRM Module

VOLTAGE RATIO MODULE CHARACTERISTICS

- Accuracy = 0.1%
- 3 Independent voltage inputs
- Terminals: Wire size: 12 AWG (up to 3.5 mm²)
- DIN-rail installation

ELECTRICAL INSTALLATION

It is recommended that the distance between the SATEC VRM and SATEC meter should not exceed 2 meters, using cabling featuring minimum 600V insulation.



When using SATEC VRM, the correct ratio coefficient must be set with PAS software software ("Basic Setup" tab):

- Using the PRO Series meters, enter "ratio" = 3.5
- Using the PM130 PLUS, enter "ratio" = 11 Ratio coefficient = 11

VRM Module QuickStart www.satec-global.com

Documents / Resources

	SATEC IEC61850 Voltage Ratio Module [pdf] User Guide IEC61850 Voltage Ratio Module, IEC61850, Voltage Ratio Module, Ratio Module, Module
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References

- [Power Quality and Energy Management Solutions](#)