What's in the Box?

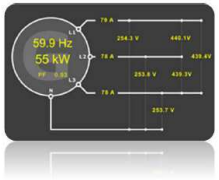
1. RIO 425 AC Generator Interface
2. 120 Ohm Resistor
3. Quick Installation Guide

Caution!

Handle with care when opening the bag and installing the unit.

User Interface Basics

Instrument Page
When connected and configured the DCU engine panel can display this power measurement instrument page.



Note!
It is recommended to configure the unit using the web-interface at the DCU Engine Controller. However, this product has a local user interface briefly explained below:

Configuration
Press the configuration key for 3 seconds to enter the Setup menu. Press the same key to modify configuration values.

Left Cursor
Move left/down for digits and items.

Right Cursor
Move right /up/next for digits /items or continue to the next step.

For further details and information, please see the **Installation Manual.**

auto MASKIN **Marine Pro** 400 Series

Quick Installation Guide

RIO 425

P/N 1500443

Highlights

- Phase/L1-L3 up to 520 VAC
- Phase/N up to 300 VAC
- Phase currents (A)
- Frequency (Hz)
- Power factor
- Total power (kW)
- Local Display
- Configurable
- Power supply 100-240 VAC
- Modbus RTU/RS-485

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Specifications

Measurements

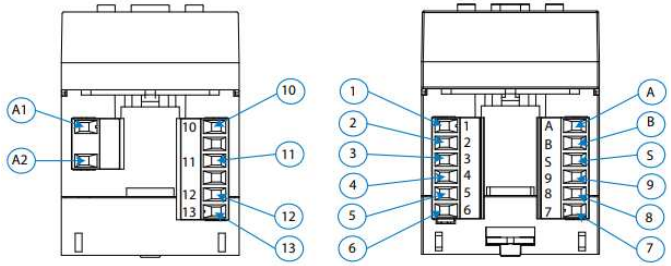
Section	Width	Height	Depth	Unit
Size	52.5	118	70	mm

Power Ratings

Section	Min	Typ.	Max	Unit
Power Supply	100	230	240	VAC

Maximum power consumption 4 VA.

Terminal Connectors



A1: Power Supply
A2: Power Supply

10: VL1, voltage input L1
11: VL2, voltage input L2
12: VL2, voltage input L3
13: N, Neutral voltage input

1: S1, current input L1
2: S2, current input L1
3: S1, current input L2
4: S2, current input L2
5: S1, current input L3
6: S2, current input L3

A: A+, RS-485
B: B-, RS-485
S: S, GND for RS-485 and digital inputs

9: I1, Digital input 1 or selection rate
8: O1, Digital output 1
7: CO, Common digital outputs

Responsibilities

It is the sole responsibility of the installer to ensure that the installation work is carried out in a satisfactory manner and meet all applicable rules and regulations.

Installation

1. Wire all external connections to the RIO 425 AC Generator Interface Module:
   * Power Supply
   * Communication to the DCU
   * Generator Voltage Interface
   * Generator Current Interface
2. For protection, use an external 2 A fuse.
3. The RIO 425 is by default preconfigured for communication with an Auto-Maskin DCU (200- or 400 Series) using the RIO Link terminal S(GnD), B(L) and A(H). Make sure the communication link is correctly terminated using the submitted 120 Ohm resistor.
4. Observe that the minimum wire requirements are followed for the voltage interface (16 AWG) and current interface (12 AWG).

For further details and information, please see the **Installation Manual**.

Note

Auto-Maskin continuously upgrades its products and reserves the right to make changes and improvements without prior notice.

Configuration

The preferred configuration method for the RIO 425 is via the DCU web server menu:
Home > RIO > RIO 425.

- Primary voltage
- Secondary voltage
- Primary current

Synchronize the configuration.

Alternatively, the local user interface can be used for configuration.

Configure the desired sensors in the DCU. Press Submit when complete.

- Voltage phase L1-L3
- Current phase L1-L3
- Power factor
- Frequency
- Active/Inductive/Capacitive/Reactive/ Apparent Power
- Voltages L1-L2, L2-L3, L3-L1

See the **Installation Manual** for further information.

Additional Documentation

Please visit the Auto-Maskin website http://www.auto-maskin.com for additional documentation.