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

**What’s in the Box?**

**User Interface Basics**

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

**Note!**
It is recommended to configure the unit using the interface on a DCU engine panel.

**Reset/Setup**
Press the reset key and the Setup key for 5 seconds to enter the Setup menu.

**Clear**
Clearing the energy counters or maximum value of Pd.

**Enter**
Validates information and moves to the next menu.

**Min**
Move cursor among digits.

**Max**
Select menu options or increase a digit in a variable.

**Caution!**
Handle with care when opening the bag and installing the units.

**Quick Installation Guide**
RIO 425
P/N 1006409

- 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 85-265 V
- Modbus RTU/RS-485
Specifications

Measurements

<table>
<thead>
<tr>
<th>Section</th>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>52</td>
<td>86</td>
<td>70</td>
<td>mm</td>
</tr>
</tbody>
</table>

Power Ratings

<table>
<thead>
<tr>
<th>Section</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>85</td>
<td>230</td>
<td>265</td>
<td>VAC</td>
</tr>
<tr>
<td>Supply</td>
<td>95</td>
<td>300</td>
<td></td>
<td>VDC</td>
</tr>
</tbody>
</table>

Maximum power consumption 3VA.

Terminal Connectors

<table>
<thead>
<tr>
<th>Generator Phase:</th>
<th>V1_1</th>
<th>V1_2</th>
<th>V1_3</th>
<th>Power (+) ~ (-)</th>
<th>Power Supply, Terminals 14&amp;15</th>
</tr>
</thead>
</table>

Installation

1. Wire all external connections to the RIO 425 AC Generator Interface Module:
   - Power Supply (AC or DC)
   - Communication to the DCU
   - Generator Voltage Interface
   - Generator Current Interface

2. For protection, use an external 2A 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.

Configuration

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

Select and set desired values and then press Submit from the following sub-menus:

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

- Configure
  - Primary voltage
  - Secondary voltage
  - Primary current

- Synchronize the configuration.

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

See the Installation Manual for further information.

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.

Note

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

Additional Documentation

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