User Interface Basics

The SDU is designed to work in conjunction with a DCU. Most of the configuration and information will be managed through the DCU. Below is a short description of the indicators and buttons on the unit itself.

What’s in the Box?
1. SDU 410 in an ESD Bag
2. Bag with 1 Resistor (120Ω)
3. Bag with 10 Resistors (10kΩ)
4. Quick Installation Guide

Power Indicator
Steady On: Power Supply OK
Flashing: Power below threshold.

Status Indicators
Lit or flashing according to status as indicated. Further details see Users’ Manual.

Active Indicators
Red LEDs with switch channel and load reduction/shutdown status. Further details see Users’ Manual.

Fault Indicators
Amber LEDs with switch channel and shutdown fault status. Further details see Users’ Manual.

Acknowledge Button
Flashing status LED’s can be acknowledged by pressing the Acknowledge Button.

Overspeed Test Button
Test mode to initiate Shutdown at 95% of Nominal set-point.

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

Quick Installation Guide
SDU 410
P/N 1006451

Safety Shutdown Unit
- 8 channels for switch inputs
- 2 magnetic pickup channel
- Wire break detection with LED indication
- Overspeed test function
- Power supply monitoring
- Local acknowledge/reset button
- DIN rail mounting
**Measurements & Power Ratings**

<table>
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<tr>
<th>Section</th>
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<th>Depth</th>
<th>Unit</th>
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<tr>
<td>Size</td>
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<td>105</td>
<td>45</td>
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<table>
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<td>32</td>
<td>VDC</td>
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<tr>
<td>Supply, Vcc</td>
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<td>300</td>
<td>600</td>
<td>mA</td>
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</table>

Max ripple 10% without exceeding Min and Max values.

**Installation Steps**

1. Remove the unit from the ESD Bag and mount it on a DIN rail.
2. Attach the Power Supply and make sure the power ratings are within product specifications.
3. Connect additional external wires according to the specification related to the installation. This may include the following:
   - Magnetic Pickup Input(s)
   - Shutdown- and additional external Relays
   - Acknowledge- and Shutdown Override inputs
   - Switch Inputs with wire break resistors (10kΩ) if required
   - DCU Link with termination (120Ω)
4. As a final stage and check of the installation - Press and hold the “Overspeed Test” button to enter overspeed test mode until the “Overspeed” status LED starts flashing.

See the Installation Manual for further information.

**Configuration Steps**

The SDU is designed to be used in conjunction with a Marine Pro DCU via the two-wire DCU/SDU link.

The way of configuring the SDU is to login to the DCU via the web interface and then enter the SDU section.

For further details and information, please see the SDU 410 Installation Manual and 400E Series Configuration Manual.

**Responsibilities:**

It is the sole responsibility of the installer to ensure that the installation work is carried out in a satisfactorily manner and meets 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 Marine Pro 400 section of the Auto-Maskin website for the following enhanced documentation:

- Installation Manual
- User’s Manual
- 400E Series Configuration Manual

http://www.auto-maskin.com