**User Interface Basics**

**Instrument Pages Layout**
Configurable Gauges. Status Bar on top of the screen and Soft-button bar at the bottom.

**Start Engine**
Press Start Button. If configured as Latched Start confirm by selecting the ‘Start’ soft button.

**Stop Engine**
Press Stop Button. If configured as Latched Stop confirm by selecting the ‘Stop’ soft button.

**Alarm List**
Red: Alarms/Load-Reductions/Shutdowns
Yellow: Warnings
White: J1939 DM1 Diagnostics
Bold: Unconfirmed

**Menu**
The Menu hierarchy.

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**What’s in the Box?**

1. DCU 410E in an ESD Bag
2. Cabinet Frame
3. Bag with fastening material
4. Quick Installation Guide

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

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**Quick Installation Guide**
DCU 410E  
P/N 1006445

**Engine Monitor and Control Panel**

- 8 configurable switch inputs.
- 4 configurable 4-20 mA inputs.
- 4 configurable PT100 inputs
- Fixed- and configurable outputs.
- 1 magnetic pickup channel
- Dual J1939 interfaces
- Ethernet and Modbus communication
- Hi res 5.7” color screen
- IP56 rated front and cabinet frame

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For More Information:
For the latest updated information, please contact your local distributor or visit the Marine Pro 400 section of the Auto-Maskin web site: [http://www.auto-maskin.com](http://www.auto-maskin.com)
### 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 Supply, Vcc</td>
<td>18</td>
<td>24</td>
<td>32</td>
<td>VDC</td>
</tr>
</tbody>
</table>

Max ripple 10% without exceeding Min and Max values.

### Rear Side and Connectors

1. **SDU & RIO Link**
2. **Modbus RTU, CAN1&2**
3. **Relay 1**
4. **Relay 2**
5. **Config 1-4**
6. **All Faults**
7. **Relay Config 5-7**
8. **Shutdown ETS, ETR Running**
9. **Crank**
10. **Prelube 24V 50mA**
11. **Fixed Functional Inputs / Opto. 24V 40mA**
12. **Switch Inputs / Opto. 4-20mA 1-4**
13. **OV**
14. **Switch Inputs / Opto.**
15. **24V 40mA**
16. **COM8 Relay Exp.**
17. **PWM Out, 0-5V, On/Off, 1A Aux, Power**

### Installation Steps

1. Remove the unit from the ESD Bag. Use the submitted Cabinet Frame and mount it in a suitable enclosure.
2. Attach the Power Supply (Terminals 1-4) and make sure the power ratings are within product specifications.
4. Connect additional external connectors. This may include the following:
   - CAN bus (J1939)
   - All Faults
   - Switch Inputs
   - Configurable Outputs
   - Magnetic Pickup Input
   - PT 100 Sensors
   - 4-20 mA Sensors
   - Ethernet Interface
   - SDU & RIO Link
   - MK-14 Expansion.

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

### Configuration Steps

At the first Power-Up the user will be guided through a Setup Wizard:

1. Language selection and your choice is valid through the rest of the procedure.
2. Network settings. Make sure to follow common network configuration practice and take care when several units need to operate within the same network.

**PC Connection/Setup:**
- Connect via Ethernet using a Net Browser
- From the Address Field in the Browser, type the IP-Address. Factory Default is **192.168.0.101**.
- Then log in to the unit. Factory Default Username is ‘DCU’ and Factory Default password is ‘1234’.

**Version Information and IP Address can be shown on the screen by selecting:**
- **Menu>Help>Version Information**.

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

### 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
  - Configuration Manual

[http://www.auto-maskin.com](http://www.auto-maskin.com)