

Quick Installation Guide

RIO 412 Temperature Monitor P/N 1006454

What's in the Box?

1. The RIO 412 Module
2. Bag with 2 resistors (120Ω)
3. A bag with various Deutsch® connectors and fastening material
4. This Quick Installation Guide



Caution!

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

User Interface Basics

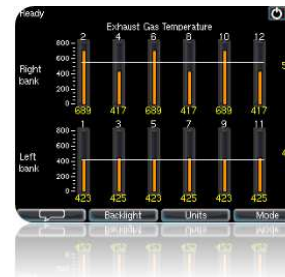
Various Gauges

Temperature sensors can be assigned to different instruments in various templates.



EGT Template

Typically, the signals from all cylinders are displayed using the EGT template.



More Information

For the latest updated information, please contact your local distributor or visit the Marine Watch section of the Auto-Maskin website.



Highlights

- 20 configurable K Type thermocouple input channels
- CANbus interface J1939
- Compatible and configured via DCU
- Connects to DCU via simple two wire twisted pair
- Alarms for excess temperature
- Alarms for excessive channel deviation temperature
- IP65 rated enclosure
- 24V DC power supply

Specifications

Measurements

Section	Width	Height	Depth	Unit
Size	149	73	146	mm

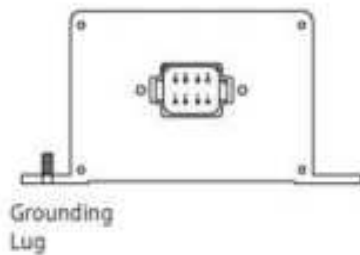
Without connectors inserted.

Power Ratings

Section	Min.	Typ.	Max.	Unit
Power Supply	9	24	32	VDC
	-	0.1	0.3	A

Connectors

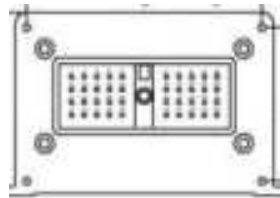
Front View



8-Pin
Connector

Power,
CAN,
RS-232

Back View



40-Pin
Connector

Sensors
1-20

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. Remove the unit from the ESD Bag.
2. It is recommended to mount the unit isolated from any chassis electrical noise disturbances as this may affect the communication between the unit and the DCU.
3. Attach the 8-Pin connector and make sure the power ratings are within product specifications and the CAN bus is wired correctly including terminations at each end.
4. Attach desired temperature sensors to the different inputs at the 40 pin connector.

See the **RIO 412 Installation Manual** for further information.

Note

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

Configuration

Configuration setup is done from the DCU.

For Exhaust Gas Temperature configuration with the DCU this is set up from the EGT (Exhaust Gas Temperature) section in the DCU. This covers setup of Cylinder deviations and Turbo deviation events.

For more information, please see the **DCU Configuration Manual** for further information.

Additional Documentation

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