
User's Manual

marine plus

RSP 305 – Remote Panel



auto
MASKIN

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General Information

ABOUT THIS MANUAL

This manual has been published primarily for professionals and qualified personnel. The user of this material is assumed to have basic knowledge in marine systems.

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

All information in this manual is based upon information at the time of printing.

For updated information, please contact your local distributor.

Ordering Information

The following articles are available in the 300 Series.

Item	Article #
DCU 305 R3 - Engine Panel	1006602
DCU 305 A R2 - Engine Panel	1006400
DCU 305 P R2 - Engine Panel	1006401
RSP 305 - Remote Panel	1006500
RK-66 - Interface Module	1075410
AK-6 - Analog Expansion	1075264
MK-14 - Relay Expansion	1121341
Rudolf Configuration cable	1075225
USB to RS-232 Converter cable	1020080

DOCUMENT INFORMATION

Valid Versions

This User's Manual is valid for the following firmware release.

RSP 305 Firmware 5.9

Manual Revisions

The revision of this manual is as follows.

Printed October 2011
 Revision 1
 Revised

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Contact Information

See the website to locate the nearest distributor.

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300 Series Overview

AVAILABLE MODULES

These are some of the modules available in the 300 Series.

DCU 305 R2 Engine Panel

The DCU 305 R2 is an engine monitoring and control unit.

It comes in two different versions:

- The DCU 305 A R2 is for auxiliary and emergency genset installations.
- The DCU 305 P R2 is for propulsion installations.

One panel is required for each engine.

DCU 305 R3 Engine Panel

The DCU 305 R3 is an engine monitoring and control unit. It is based on the R2 unit, with the following extra features:

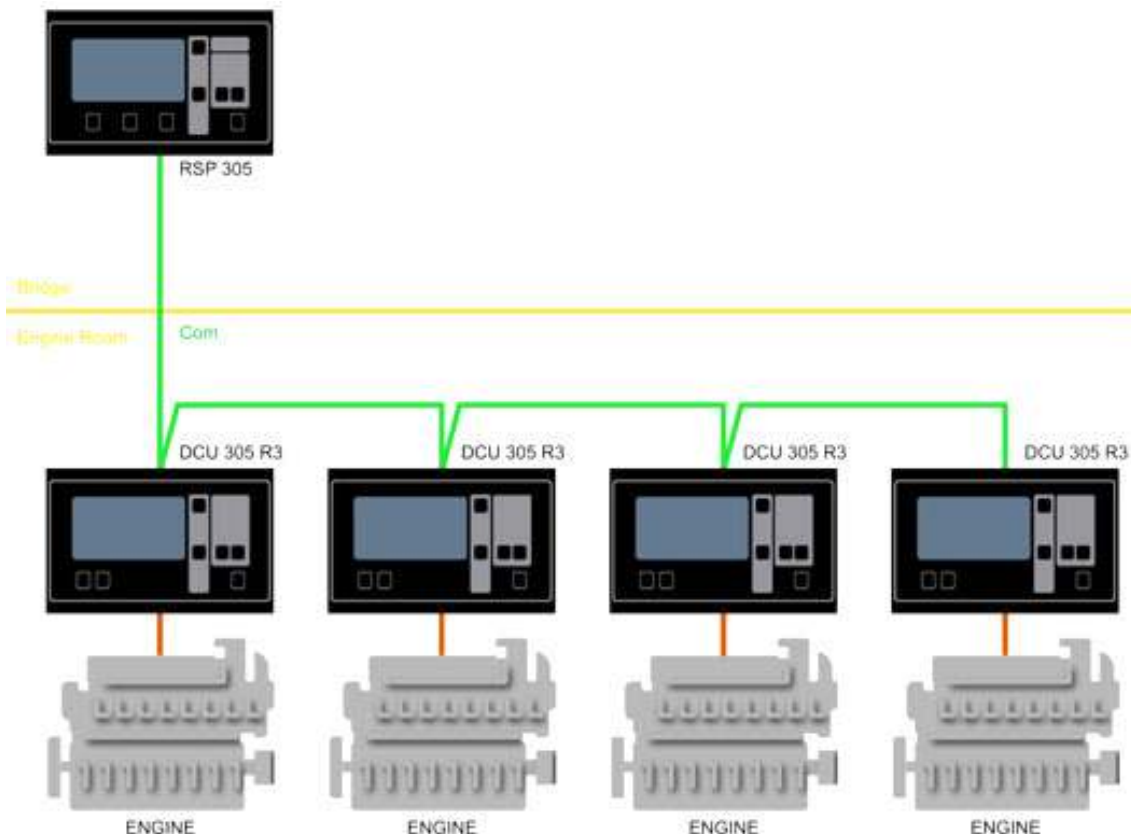
- New front panel
- Menu driven user interface
- J1939 CANbus is standard
- Password protected configuration

RSP 305 Remote Panel

The remote panel is compatible with 1–4 DCU 305 panels of type R2 or R3.

Expansion Modules

The 300 Series can be expanded with analog input and relay output modules.



Front Panel Overview

In addition to the backlit LCD screen, the front panel has a total of eight buttons.



Home button

The green Home button gives an overview of the engine(s) connected to the panel, as well as key information.

Soft buttons

Underneath the screen are three so-called soft-buttons. They always apply the function or command in the text field just above the button.

Alarm List button

The alarm list button has two colored red dots in it, to indicate it 'belongs' with the alarm indication LED's above. Pressing the button displays the alarm list.

Arrow buttons

The two arrow-buttons are used to navigate in menus and other lists.

Menu button

Finally, the Menu button has a triple function. It will be an Enter or Exit function depending on the LED in the button. When the button has no lit LED's, then it can be long-pressed to see the panel menu.

Home Screen

To see the engine overview, press the green Home button, located bottom right on the front panel.



The panel displays a list of up to four engines.

ENGINE INFORMATION

The following explains the header in the Home screen.

#

This is the engine 'label'. The engines are labeled simply A, B, C and D. In the above example there is just one engine, and it is labeled 'A'.

If more than one engine is connected, then the label distinguishes them, even if the engine panel name may be configured equally.

Engine

This is the engine name, taken from the name configured into the DCU panel.

The names should be configured to be unique, but they may be equal.

Status

This is the engine status, read from the DCU panel. It can be for instance, Ready, Cranking, Running, Cooling, Stopping, etc.

Mode

This is the engine panel operating status, for instance Standby, Manual, Local, etc.

Alarm

This indicates alarm list status for the engine panel by using letters in the following fashion:

	New	Acknowledged
Warning	W	w
Alarm	A	a
Shutdown	S	s

New

New entries in the alarm list are indicated with a capital letter. There may be acknowledged entries too.

Acknowledged

User acknowledged events are indicated with a lowercase letter. The event is acknowledged but still present.

Example:

Panel indicates “Wa”.

Here, there is a new Warning and an already acknowledged alarm(s).

DETAILED ENGINE INFORMATION

From the Home screen, use the arrow buttons to move the cursor up/down, and then select an engine by pressing **Enter**.

The RSP 305 will display an image exactly like on the DCU 305 panel.

Navigate to next/previous instrument picture with the up/down arrow buttons.



Press the Exit or Home button to return to the top level Home screen.

Alarm List

Press the **Alarm List** button to see the alarm list.

The panel displays a list of alarms from all the connected engines. The following explains the header in the Alarm List.



#

This is the engine label reference.

If more than one engine is connected, then the label distinguishes them, even if the engine panel name may be configured equally.

Engine

This is the engine name, taken from the name configured into the DCU panel.

Text

This is the alarm text, exactly as displayed in the engine panel.

@

This is the alarm status as follows:

	New	Acknowledged
--	-----	--------------

Warning	W	w
Alarm	A	a
Shutdown	S	s

SORT ALARMS

While in the alarm list, pressing the **Chrono** soft-button will toggle the sort order of the alarm list as follows.

Chrono	Sorts the most recent alarm to be at the top of the list, then chronologically downwards.
Engine	Sorts all alarms from engine 'A' at the top, then all alarms from engine 'B', etc.
Severity	Sorts the most severe events in the list at the top, ie shutdown events at the top, then all alarm events and finally all warning events.

ACKNOWLEDGE ALARMS

Acknowledge single event

From the alarm list, press the **Ack.** soft-button to acknowledge the selected alarm.

Move the cursor up/down to select other events to acknowledge.

Acknowledge all events

Press the **Ack. All** soft-button to acknowledge all alarms in the alarm list.

Menu

Press and hold the **Menu** button to access the menu.



DCU Info

This displays the DCU engine panel status, along with the engine's running hours and start counters.

Log

This displays the logged alarm events from all connected engines.

Alarm Flash

Select whether the LCD shall flash to attract attention when a new alarm is present in the alarm list.

Backlight

Select *Full*, *half* or *Night Mode* backlight.

Night Mode

In Night Mode, the panel turns off the LCD backlight completely after a few seconds. Also the LED's are switched off completely.

If a new warning or alarm appears, then the backlight switches to half intensity until the event has been acknowledged.

Lamp Test

Press and hold to switch on all LED's. In total, 11 LED's shall be lit, including the power LED.

About

This displays information about the RSP 305 panel, like firmware version. It also has a counter that counts quickly when the panel is communicating to the DCU panel(s).

DCU Scan

If a DCU 305 engine panel is added or removed from the connection to the RSP 305, then the RSP 305 needs a new DCU Scan.

Scanning the network otherwise does not harm but is not necessary.

Note that after a new scan, the RSP 305 will re-indicate any present alarms as new alarms.

LCD Contrast

Adjust display contrast using the two softbuttons provided.

Start Engine

From the **Home** screen, select the engine to start using the arrow up/down buttons, then select **Start** from the softbutton provided.

The RSP 305 asks for verification.

Note that the Start button is visible only if the engine is not running.



Stop Engine

From the Home screen, select the engine to stop using the arrow up/down buttons, then select **Stop** from the softbutton provided.

The RSP 305 asks for verification.

Note that the Stop button is visible only if the engine is running.

Standby/Manual

From the Home screen, select the DCU engine panel to command, then select **Standby** or **Manual** from the softbutton provided.

