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# Quick Installation Guide

marine plus

## RSP 305 Remote Panel



auto  
MASKIN



**Quick Installation Guide**  
for  
**RSP 305 – Remote Panel**

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# Document 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, and must be able to carry out related electrical work.

Work on the low-voltage circuit should only be carried out by qualified and experienced personnel.

Installation or work on the shore power equipment *must only* be carried out by electricians authorized to work with such installations.

## Responsibilities

It is the *sole responsibility of the installer* to ensure that the installation work is carried out in a satisfactorily manner, that it is operationally in good order, that the approved material and accessories are used and that the installation 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.

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

## Ordering information

The **Marine Plus** range includes the following compatible units.

| Item                                | Part #  |
|-------------------------------------|---------|
| DCU 305 A/P R2*                     | 1006400 |
| DCU 305 R3                          | 1006602 |
| AK-6 analog expansion               | 1075264 |
| MK-14 relay expansion               | 1121341 |
| ICPCON 232/422 signal converter     | 1008335 |
| Cable RSP 305 - DCU 305 direct, 20m | 2000267 |
| Cable ICPCON - DCU/RSP 305, 2m      | 1008221 |
| Cable ICPCON - DCU/RSP 305, 0.7m    | 1008227 |
| Rudolf configuration cable, 2.0m    | 1075225 |

\* Note that *all variants of the DCU 305 R2 can be connected to the RSP 305 remote panel.*

## About the RSP 305 Remote Panel

The RSP 305 is a remote panel for 1-4 engine panels in the 300 Series. It displays the same screens as on the DCU 305 engine panels.

When connected, it will automatically detect the engine panels, and will update itself with the current configuration from the engine panels.

As such, there is never a need to configure the RSP 305.

# Installation

The RSP 305 Remote Panel is normally installed in the engine control room or at the Bridge.

Make sure the panel can be easily seen and operated at all times.

Use the fastening material that came with the delivery to securely fasten the unit.

## Unwrapping

The package includes:

- This Quick Installation Guide
- The RSP 305 unit
- A power cable
- A plastic bag with various fastening material

# Electrical Connections

## Power supply

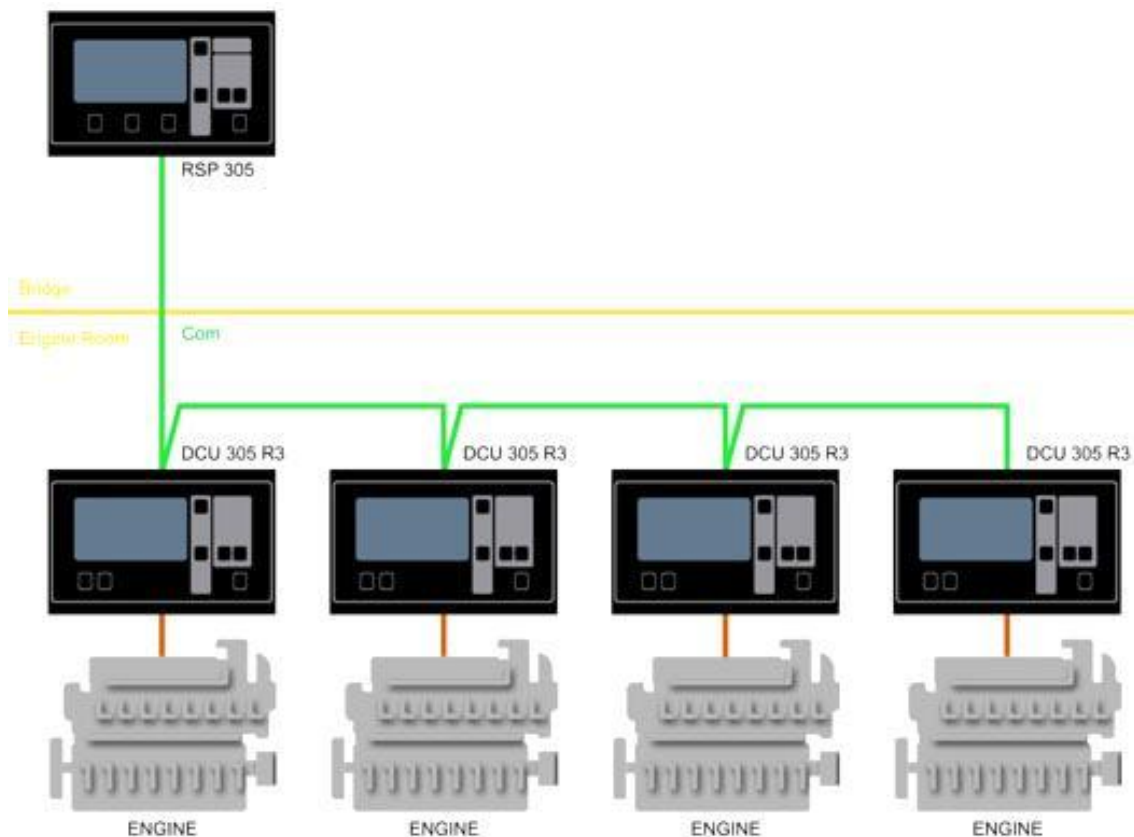
Supply Voltage: 24 VDC.

Connect supply voltage using the power cable that came with the delivery.

## Operating the Panel

Be sure to download the RSP 305 User's Manual from

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





## Connecting 1 DCU 305 engine panel

If connecting the RSP 305 Remote Panel to exactly one DCU 305 engine panel, then the connection can be as follows:

| RSP 305<br>P3 (9p-DSUB male) | DCU 305<br>P3 (9p-DSUB male) |
|------------------------------|------------------------------|
| 2                            | 3                            |
| 3                            | 2                            |
| 5                            | 5                            |

The requirement is however, that the distance between the two panels is 20 meter or shorter.

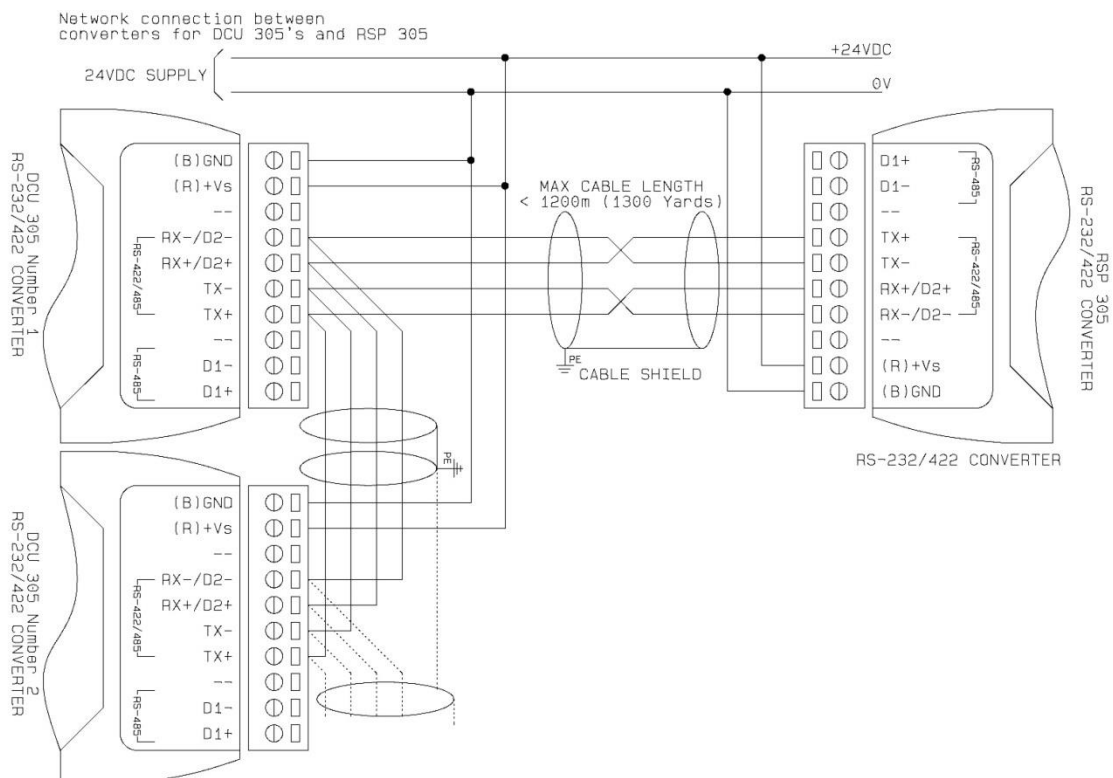
If the distance is longer than approximate 20 meters, then connect as if connecting 2-4 DCU 305 engine panels.

**Note!** The panel connectors are DSUB male, so the cable connectors shall be DSUB female.

## Connecting 2-4 DCU 305 engine panels

If connecting the RSP 305 remote panel to 2-4 DCU 305 engine panels, then a signal converter is needed at the RSP 305, and also at each DCU 305.

This method is also necessary if connecting to just one DCU 305, if the distance between the two panels is longer than 20 meter.



## Configuration

The RSP 305 shall be told to scan the network for DCU 305 panels. When this is done, the RSP 305 will remember the setting, also after power off.

### Preparing the DCU 305 engine panels

Each DCU 305 engine panel must be configured with a unique ID-address. From factory, this address is 1 (one).

If the RSP 305 remote panel is to communicate with one DCU 305 engine panel only, then there is no need to change this address. It can be any address in the range 1–32.

If the RSP 305 remote panel is to communicate with 2–4 DCU 305 engine panels, then it is important (mandatory) that each DCU 305 is configured with a unique address.

For changing the ID address of the DCU 305, use the Rudolf R2/R3 software. Refer to the DCU 305 documentation for how to do this.

**Note!** All DCU 305 addresses must be in the range 1–32. The RSP 305 will not scan addresses above 32.

### Preparing the RSP 305 remote panel

When the network is connected properly, enter the menu of the RSP 305.

To access the menu of the RSP 305, long-press (~1 sec) the Menu button until the menu is displayed.

From the Menu, select **DCU Scan**. The RSP 305 will now search for DCU 305 units connected, in the ID range 1–32.

## Troubleshooting

**Q:** The RSP 305 is unable to find any DCU 305 units while doing the **Menu – DCU Scan**.

**A:** Possible reasons:

- Communication wires wired incorrectly
- Signal converters not functioning
- DCU 305 panels with same ID address (if more than one DCU 305 in the network)
- Faulty communication port on the DCU 305 or RSP 305

**Note!** The RSP 305 supports displaying CAN data read by the DCU 305 at the first instrument page only (sensor/bar channel number 1–5).