
The WPCI2000 converts the RS232 output from one or more WhisperPower WPC systems, making the output data compatible for display by NMEA 2000® protocol based board computer and/or navigation system.

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1. Introduction

**Use of this manual**

This manual serves as a guideline for safe and effective installation of your WhisperPower WPCI2000 Converter. It is recommended to keep the manual in good condition for future use. It should be kept in a dry and clean place, and available at all times.

**General precautions**

To assure safe and sustainable operation of the WPCI2000 Converter, it is obligatory that handling and safety instructions detailed in this manual are followed at all times. Every person working on or with the WPCI2000 should be familiar with the contents of this document. Also bear in mind that applicable safety standards and local stipulation need to be followed at any time. Furthermore, only qualified and authorized technical experts are permitted to perform any activities which require opening the system. Any operation against safety requirements and/or design, manufacture or safety standard are not covered by the manufacturer warranty.

- Translates WPC messages to equivalent NMEA 2000® PGNs and vice versa
- Suitable for up to six WPCs plus one WPC-BSI-500 Battery Status Interface
- Monitor on your board computer / navigation system; no compatibility issues
- Matches with all commonly used NMEA 2000® based viewer and navigation systems

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2. Instructions for use

**Little instruction is needed to operate the WPCI2000 Converter**

Once connection (realised as prescribed in section 4) between the (one or more) up to six WhisperPower WPC system(s) and the WPCI2000 RS232 port has been established, as well as the connection between the WPCI2000 NMEA 2000® port and your board computer / navigation system, the WPCI2000 will start working automatically. No user action will be required.

The WPCI2000 will retrieve its power directly through the NMEA 2000® connection with the board computer or navigation system.

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3. Troubleshooting

**Table below shows what to do when an exceptional condition or error may occur.**

Use the instruction to inform the user whether the communication is taking place.

**The ON LED indicator starts flickering as soon as the WPCI2000 is receiving power through the NMEA 2000® connection. The other three LED indicators display what kind of information / messages are being sent and received.**

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**Specifications**

- **WPCI2000 Converter**
- **WPC**
- **NMEA 2000®**
- **RS 232**

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**Disclaimer**

WhisperPower can accept no responsibility for possible errors or omissions in catalogues, brochures and other printed material. WhisperPower reserves the right to alter its products without notice. This guide must be followed carefully. WhisperPower can accept no responsibility for errors related to incorrect or unsafe installation and/or handling.
4. Installation

Installation prerequisites
Do not use threadlocking compounds containing methacrylate ester, such as Loctite Red [271], as these might cause stress cracking of the plastic housing.

Installation

Step 1: Positioning the WPCI 2000
Attach the WPCI 2000 securely to the wall or cabinet. Determine the mounting points; dimensions are presented in drawings below.

Step 2: Connecting cables
Figure 1 presents the WPCI2000 RS232 and NMEA 2000® connectors. Connect the RS232 cable (included) to the RS232 connector (top in picture below) and the NMEA 2000® cable to the NMEA 2000® connector (bottom in picture). Note that a NMEA 2000® cable is not included.

See Figure 1: the WPCI2000 NMEA 2000® connector is a five pin male connector. Connect it to the female end of the NMEA 2000® cable (note the key and keyway location!). Be sure that the cable is connected securely and that the collar on the cable connector is tightened firmly. Connect the other end of the cable (male) to the NMEA 2000® network in the same manner.

Note that the WPCI2000 design allows you to plug or unplug the WPCI2000 from the NMEA 2000® network anytime, hence with the power connected or disconnected.

As far as connecting the NMEA 2000® cable to the NMEA 2000® connector section of the board, computer / navigation system is concerned, the reader is referred to the device’s documentation.

Step 3: Connection verification
Once the connections been realised, it is recommended to verify that data are being properly transmitted: check whether your display device is receiving NMEA 2000® sentences. In case no information appears, the “Troubleshooting” section will provide problem solving information.

5. Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>WPCI2000 WPC-RS232-I / NMEA 2000® converter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model number</td>
<td>60116057</td>
</tr>
<tr>
<td>Dimensions, w x h x d</td>
<td>210 x 80 x 46 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>0.28 kg</td>
</tr>
<tr>
<td>TECHNICAL SPECIFICATIONS</td>
<td></td>
</tr>
<tr>
<td>Operating voltage</td>
<td>8...18 V</td>
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<tr>
<td>Power Consumption</td>
<td>100...240 mA</td>
</tr>
<tr>
<td>Load equivalence number (1 LEN = 50 mA)</td>
<td>3</td>
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<tr>
<td>CONDITIONS</td>
<td></td>
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<tr>
<td>Operating temperature</td>
<td>-25°C...55°C / -13°F...131°F</td>
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<tr>
<td>Storage temperature</td>
<td>-25°C...80°C / -13°F...176°F</td>
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<tr>
<td>Relative humidity</td>
<td>Max. 95%, non-condensing</td>
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<tr>
<td>Protection degree</td>
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<tr>
<td>COMPLIANCE</td>
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</tr>
<tr>
<td>Standards</td>
<td>IEC 60945 (maritime navigation and radiocommunication)</td>
</tr>
</tbody>
</table>

6. Warranty terms and conditions

WhisperPower guarantees that the equipment has been built according to the legally applicable standards and specifications.

WhisperPower assures the product warranty of the WP-ACP AC PowerCube sine wave inverter during two years after purchase, on the condition that all instructions and warnings given in this manual are taken into account during installation and operation. The warranty is limited to the costs of repair and/or replacement of the product by WhisperPower only. Costs for installation labor or shipping of the defective parts are not covered by this warranty.

7. Conformity declaration

Issuer’s name: WhisperPower BV
Issuer’s address: Kelvinlaan 82, NL-9207 JB Drachten
Object of the declaration: WPCI2000 WPC-RS232-I / NMEA 2000® converter
Model no. 60116057

The object of the declaration described above is in conformity with the requirements of the following Directive and standard, as applicable:
2004/108/EC (EMC Directive);
EN 60945:2002

Signed for and on behalf of:
WhisperPower BV
Drachten, March 13, 2014
R. ter Heide, C.E.O.