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1 INTRODUCTION

1.1 Purpose, scope and application

This operating manual describes the *P6 Suite* PC software for the P6 cleaning machine and is intended for ECOCLEAN GMBH service technicians and technicians trained by ECOCLEAN GMBH as well as users of the RM P6. It provides information on the operation of the PC software.

Questions about installation, use and operation can be sent to the e-mail address info.monschau@ecoclean-group.net of Ecoclean GmbH Electronics AG.

We reserve the right to make changes to this document. Copies already issued are not automatically subject to the amendment service.

This description applies to the software version

P6 Suite 1.3.0

1.2 Definitions

1.2.1 Terms

Cleaning cycle

Program for cleaning small mechanical parts.

Phase

Sub-units of a cleaning cycle consist of different phases such as: Ultrasonic cleaning, rinsing or drying.

Cleaning medium

Water or water mixed with cleaning chemicals. The chemicals can be alkaline or acidic, or they can be drying aids or other additives.

1.2.2 Abbreviations

CU: Control computer CU4000 (machine control)

1.2.3 Referenced documents

Operating instructions Cleaning machine P6:	BA-6028-001
Quick guide Software update P6:	BA-6028-002
Operating instructions Up/Download:	BA-6028-004
Operating instructions P6 SCADA:	BA-6028-005

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2 GENERAL INFORMATION

2.1 Intended use

The *P6 Suite* PC software can optionally be used with the P6 cleaning machine.

2.2 Manufacturer

Ginova Electronics AG
Systems, Software and Electronics
Spärsstrasse 7
CH-2562 Port
SWITZERLAND
Website: www.ginova-electronics.com
E-mail: info@ginova-electronics.com

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3 INSTALLATION

3.1 System requirements

P6 Suite can be installed on a standard Windows PC. Minimum requirements:

Operating system: Windows 7

3.2 Installation

P6 Suite is installed by executing the setup file. Follow the instructions on the screen.

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4 Operation

P6 Suite is divided into several areas

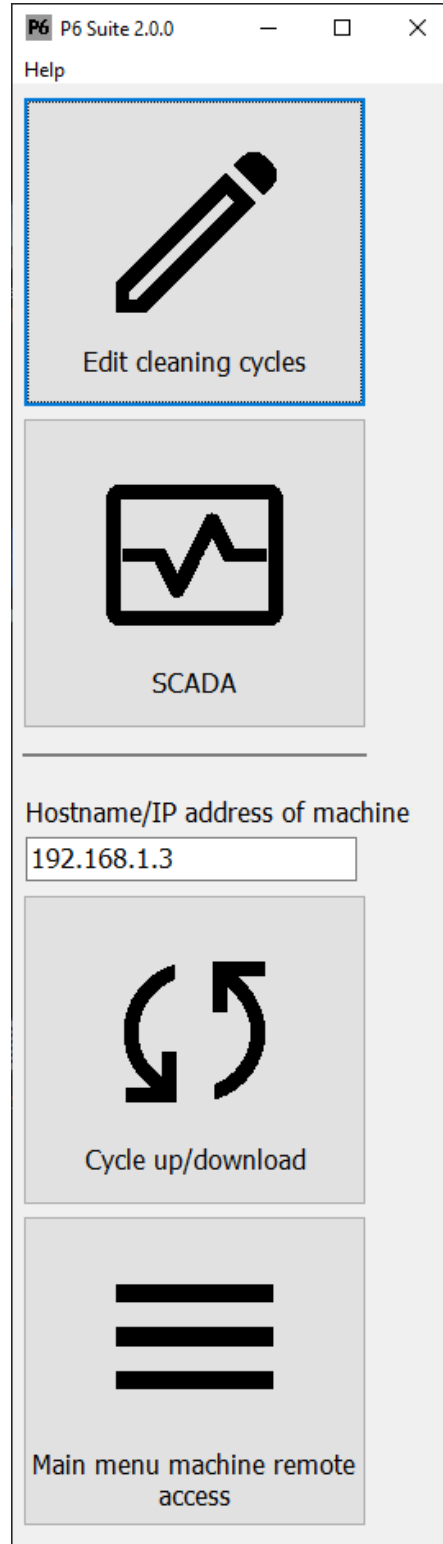


Fig. 3.2-1 Main page

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4.1 Edit cleaning cycle

The cleaning cycles saved on the PC can be changed and new cleaning cycles can be created.

4.1.1 Machine-dependent parameters

Some machine parameters influence the cleaning cycles. For example, turntable positions with or without ultrasonic installed are machine-dependent, and accordingly the ultrasonic parameters only appear if a turntable with ultrasonic is selected.

For this reason, some machine settings are saved together with the cleaning cycle. This is only for correct display and to comply with parameter limits. After changing certain machine settings, cleaning cycles should therefore be sent back to the PC.

This affects the following machine settings, among others (the list is not complete)

- Names of the turntable positions
- User system activated / deactivated
- Vacuum installed
- Turntable positions with / without ultrasonic
- Available ultrasonic frequencies
- Permanent flow bath with or without conductivity measurement installed

If a cleaning cycle is opened whose machine settings do not match those saved on the PC¹

1. the machine settings of the cleaning cycle were saved later than those on the PC:
 - a. The machine settings of the cleaning cycle are saved on the PC for later use (e.g. creating a new cleaning cycle).
2. the machine settings on the PC were saved later than those of the cleaning cycle (this usually happens when an older cleaning cycle is opened, i.e. parameters on the machine have been changed in the meantime):
 - a. The following message appears

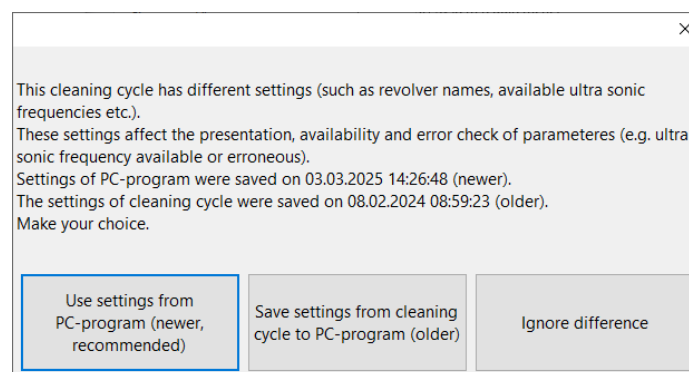


Fig. 4.1-1 Other machine settings

The button on the far left is the recommended choice, i.e. the newer settings are used.

¹ This means that other settings were present on the machine at the time the cleaning cycle was uploaded

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- Ignore
The machine settings from the cleaning cycle are used to display and edit the cleaning cycle and the settings are NOT saved on the PC.
- Save settings from the cleaning cycle as default:
The machine settings from the cleaning cycle are used to display and edit the cleaning cycle, and the settings are stored on the PC for later use.
- Use settings from the PC program:
The machine settings already stored on the PC are used to display and edit the cleaning cycle.

4.1.2 First use

Due to the machine-dependent parameters (see 4.1.1 Machine-dependent parameters), any cleaning cycle must be opened the first time it is used. As a result, the machine settings saved together with the cleaning cycle are copied and stored for later use. For this reason, the following message appears if a new cleaning cycle is to be created before a cleaning cycle has been opened:

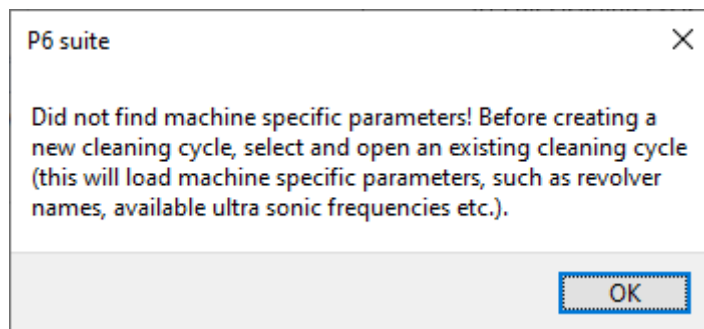


Fig. 4.1-2 First use

4.1.3 Sign cleaning cycle

If the access authorization system is activated on the CU (see 1.2.3 Referenced documents, operating instructions for cleaning machine P6), cleaning cycles must be signed before they can be started.

Cleaning cycles must be signed on the CU and cannot be signed in the PC application.

4.1.4 Edit cleaning cycle

All cleaning parameters are described in the P6 cleaning machine operating instructions, see 1.2.3 Referenced documents. The parameters have the same designation and are similar to those shown on the P6 cleaning machine.

New cleaning cycle

Parameters for each
turntable position:

Box can be opened and
closed.

Select phase
(to edit: double-click or
select and "Edit phase")

Functions of
the phases:

New, edit,
change order,
copy, delete

Fig. 4.1-3 Edit cleaning cycle

Time format:

Times such as phase time are displayed in minutes and seconds. The following formats are accepted for input:

- Seconds
e.g. enter "90" = 90 sec. → 1 min 30 sec
- Minutes and seconds
e.g. for 1 min. 30 sec.: (spaces are optional)
 - "1 min 30 sec"
 - "1m30s"
 - "1m30"

4.1.5 Print / PDF

The open cleaning cycle is displayed in a print preview. The cleaning cycle can then be printed out or saved as a PDF².

² Note: The print preview may not be completely accurate, as the font types and sizes are completely identical when printing or creating a PDF. This could result in a page change at a different position. The preview shows the printout on A4 paper. Other paper sizes will result in different page breaks. A PDF is always created in A4 aspect ratio.

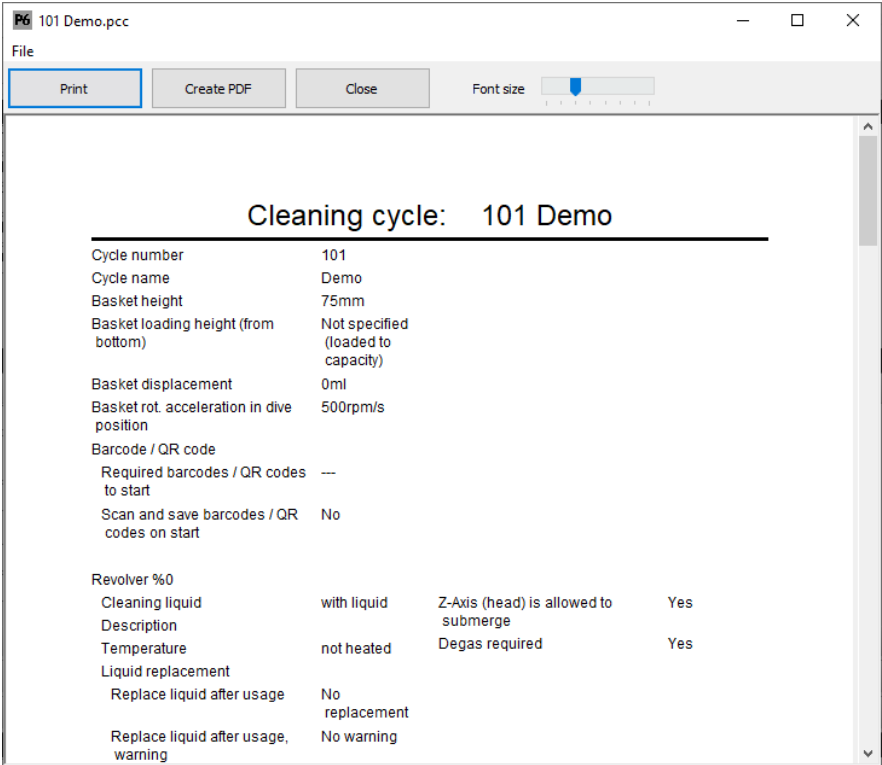


Fig. 4.1-4 Print preview

4.1.6 Compare cleaning cycles

This function cycles allows you to select two cleaning. All parameters of both cleaning cycles are listed next to each other. If the parameters differ, the line is marked with an asterisk (*) and displayed in red. This comparison can also be printed out or saved as a PDF.

100 Demo.pcc				101 Demo.pcc			
* Cycle number	100			Cycle number	101		
Cycle name	Demo			Cycle name	Demo		
Basket height	75mm			Basket height	75mm		
Basket loading height (from bottom)	Not specified (loaded to capacity)			Basket loading height (from bottom)	Not specified (loaded to capacity)		
Basket displacement	0ml			Basket displacement	0ml		
Basket rot. acceleration in dive position	500rpm/s			Basket rot. acceleration in dive position	500rpm/s		
Barcode / QR code				Barcode / QR code			
Required barcodes / QR codes to start	---			Required barcodes / QR codes to start	---		
Scan and save barcodes / QR codes on start	No			Scan and save barcodes / QR codes on start	No		
Revolver %0				Revolver %0			
Cleaning liquid	with liquid			Cleaning liquid	with liquid		
Description				Description			
* Temperature	45°C			Temperature	not heated		
Liquid replacement				Liquid replacement			
Replace liquid after usage	No replacement			Replace liquid after usage	No replacement		
Replace liquid after usage, warning	No warning			Replace liquid after usage, warning	No warning		

Fig. 4.1-5 Compare cleaning cycles

4.2 SCADA

The SCADA program is started.

See SCADA operating instructions, 1.2.3 Referenced documents.

4.3 Cleaning cycles up/download

Cleaning cycles can be transferred between the CU and the PC. Cleaning cycles of the machine (CU) can thus be downloaded to the PC for backup or editing purposes and uploaded back to the machine (CU) if required.

The machine is accessed via the host name or IP address entered above.

See operating instructions Up/Download, 1.2.3 Referenced documents.

4.4 Main menu Remote access machine

Certain functions (e.g. upload/download of settings, software update, etc.) can be accessed via a menu.

The machine is accessed via the host name or IP address entered above.