

P5253 JS F 67580 Mertzwiller

N° IT2598

15/02/2013

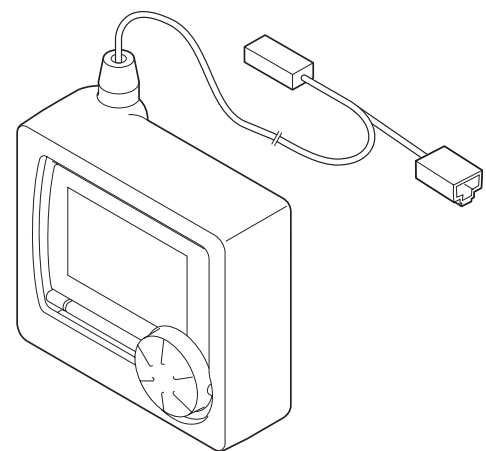
EN

1. Service tool

The service tool is required to modify the factory settings of EMC... / PMC... boilers

For example:

- Settings in case of gas conversion
 - Modification of the heating gradient
 - Modification of the maximum boiler temperature
 - Modification of the fan speed
- etc...




006257-D

The service tool can also help in the diagnosis by displaying error codes.





i Only the service tool assembly instructions are delivered with package HR83.
The user manual (first version attached) can be downloaded from our website in Product section.

2. After Sales Service information

A website with simplified After Sales Service information for different products is available:

<p>Access from a computer:</p> <p>http://sav.dedietrich-thermique.fr</p>	<p>or</p>	<p>Access via smartphone or tablet (QR code)</p> 
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After Sales Service information is currently available for the following products (NANEO to come):





<p>INNOVENS MCA</p> 	<p>MODULENS AGC</p> 	<p>MIV II for ALEZIO</p> 	<p>VIVADENS MCR</p> 
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Service tool



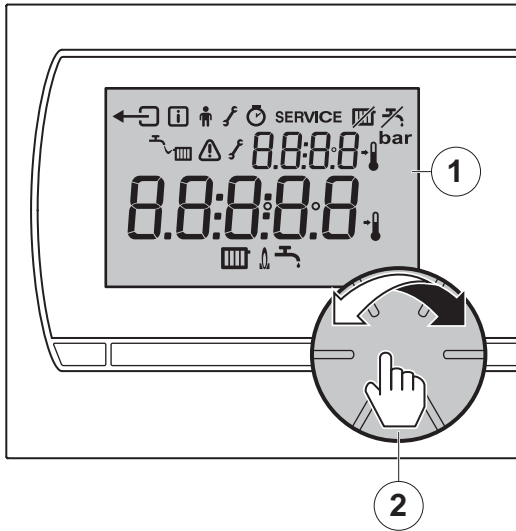
User Guide

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1 Control panel

1.1 Description



R000057-D

- 1 Display
- 2 Rotary and push button for operating the service tool

The service tool is menu-controlled, making it very easy to operate. The service tool has just one button.

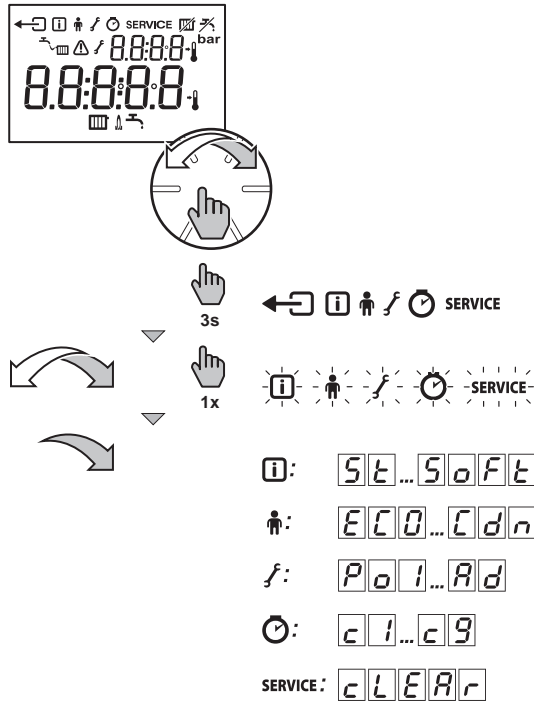
- i**
 - ▶ The button is both a rotary button and a push button.
 - ▶ Turn it to scroll through menus or change values.
 - ▶ Press it to confirm choices (Such as menu selections).

1.1.1. Meaning of the symbols on the display

Symbol	Meaning	Symbol	Meaning
	ECO mode on		Back
	Water pressure too low		Information menu
	Defect		User menu
	Boiler service required		Installer menu
	Current temperature		Counter menu
	Set temperature	SERVICE	Service menu
	Central heating function on		Burner on
	Domestic hot water function on		

2 Settings

2.1 Menu structure



To access the menu, proceed as follows:

- ▶ Press the rotary and push button for at least 3 sec.
- ▶ Turn the button until you reach the required menu.
- ▶ Press the button to confirm.
- ▶ Amend the selected menu item.
- ▶ Press the button to confirm.
- ▶ Exit the menu by pressing .



WARNING


The values to be read may differ depending on the connected heating unit. See the installation and service manual for the boiler.














2.2 Information menu

This menu provides access to various kinds of information about the boiler and any connected accessories.

Symbol	Meaning
St	State
Sw	Sub-status
tF	Current inlet temperature (°C)
tR	Current return temperature (°C)
tDH	Current tank temperature (°C) (Only if an DHW sensor is connected)
tOwL	Current outside temperature (°C) (Only if an outside temperature sensor is connected)
tSoL	Current solar tank temperature (°C) (Only with the sensor connected)
FL	Current ionization current
nF	Current fan speed rpm
Pr	Current water pressure (Only boilers with a water pressure sensor)
Po	Current heat output of boiler
SoFt	Service tool software version

2.3 User menu

Changes to parameter settings in this menu are only used while the service tool is connected. Use the Fitter menu  to change the parameter settings permanently.

Code	Meaning	Information	Settings	Factory setting
	ECO mode	The ECO mode turns off the DHW standby function. In combi boilers the waiting time increases. Calorifiers are no longer kept warm.	 = Automatic position  = Start  = Stop	
	DHW standby function	Setting the required tap water temperature, for calorifiers with a temperature programme.	30 to 75 °C	60°C 
	Maximum central heating water temperature	Setting the required central heating water temperature.	0 to 100 °C	90°C 
	Not applicable	This function does not apply to the service tool.	Not applicable	
	Not applicable	This function does not apply to the service tool.	Not applicable	

2.4 Installer menu









In this menu, the installer can—depending on the boiler—adjust some of the functions and access information.






The following is applicable to all installer settings:

- ▶ The values to be read may differ depending on the connected heating unit.
- ▶ The meaning of the various codes may differ for different boilers.
- ▶ After selection of a parameter, it takes 1 s before the parameter is retrieved.

Settings > Installer menu  

Parameter	Description	Adjustment range	Factory setting
 to  ⁽¹⁾	Consult the boiler manual when changing the boiler parameters. If an invalid value is entered,  appears on the screen.		
 and 	Factory setting	To restore the factory settings or when replacing the main PCB, enter the values dF and dU from the type plate in parameters  and 	X Y
	Detection of connected SCUs	0 = No detection 1 = Detection	0

(1) If the boiler is not using a specific parameter, a value of 255 is displayed.  See the installation and service manual for the boiler.

Parameters  and  can also be set to a negative value. Use the following formula to read or change the required negative value;

Setting value - 256 = Desired value.

If setting value 246 is displayed, this corresponds to the required negative value of -10 (246 - 256 = -10).

To change a required negative value to -15, the setting value must be set to 241 (241 - 256 = -15).

Desired value	0	-1	-5	-10	-15	-20	-25	-30
Setting value	0	255	251	246	241	236	231	226












Setting value 0 = Desired value 0.

2.5 Counter menu

The history of various boiler functions can be checked in this menu.

Settings > Counter menu 

Code	Meaning
 1	Unsuccessful starts
 2	Number of times with no or low flame
 3	Number of successful starts
 4	Number of central heating pump starts
 5	Number of DHW pump starts
 6	Number of DHW burner starts
 7	Total operating hours
 8	Number of central heating pump operating hours
 9	Number of DHW pump operating hours

2.6 Service menu **SERVICE**

Boiler service messages can be reset here.


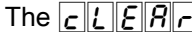
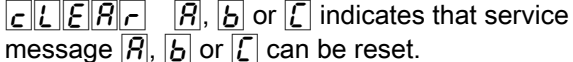
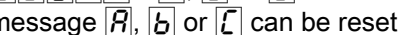
Settings > Service menu **SERVICE**

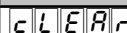


WARNING

Reset the service message after the boiler service has been carried out. This can be the active message or the next message.



- ▶ If  is displayed in the service menu, the boiler will not show a service code.
- ▶ The  message indicates that a (pre-) service reset is possible. The message  indicates that service message  can be reset.
- ▶ The boiler determines which service message can be reset.

Code	Meaning
	Service reset



Only a qualified engineer may carry out the following operations.

When the **CLER** message is displayed, you can choose to either retain the service message or reset it. If no action is taken, the service message will remain. To reset the service message, proceed as follows:

1. Press the rotary and push button.
2. Turn the button to **CL:YES**.
3. Press the button to confirm.
4. The service tool will then return to the **- - - -** screen.



Multiple resets are not possible.

Operations to be carried out		
SERVICE CLER R b c	SERVICE R CL: NO	SERVICE R CL: YES

3 Messages

3.1 Error messages



R000125-A

If an error is present, a fault code and a fault indication will appear on the display.

Error codes	Fault indication	Probable causes	Solution
F203	⚠	Faulty connection to boiler.	Check the boiler's connection to the service tool.
F214	⚠	Incorrect room temperature reading.	Room temperature reading is incorrect. The temperature sensor may be defective if the room temperature is between -5°C and 65°C.
F215	⚠	Service tool faulty.	Replace service tool
F217	⚠ +	Water pressure too low.	Top up the water in the central heating system. See the installation and service manual for the boiler.
<div style="display: flex; flex-direction: column; gap: 5px;"> no SP </div>	⚠	Your boiler may not support the OpenTherm SmartPower.	OpenTherm SmartPower is required for the backlight. In boilers without OpenTherm SmartPower, the Servicetool is functional but without backlight. To clear the message, press the button.



For the boiler's error codes, see the corresponding installation and service manual.

4 Technical specifications

4.1 Technical specifications

Dimensions	
	80 x 90 x 32,5 (l x b x h) mm
Power supply	
Service tool OpenTherm	OpenTherm
Electrical connection	
Service tool OpenTherm	OpenTherm communication. Low-voltage connection
Ambient conditions	
Storage conditions	Temperature: -25°C +60°C
	Relative humidity 5% - 90% no condensation
Operating conditions	0°C - 60°C
Temperature	
Room temperature	Measurement range: -5°C +65°C
	Maximum temperature deviation at 20°C: 0,3°C
Features of service tool	
Backlight	Colour: blue
Controls	Rotary and push button
Mounting	See the assembly instructions provided
Quality marks and compliance with standards	<ul style="list-style-type: none"> ▶ EMC: 2004/108/EC, 55014 ▶ Emission EN61000-6-3 ▶ Immunity: EN61000-6-2 ▶ Drop test: IEC 68-2-32 ▶ RoHs Compliant ▶ OpenTherm V3.0 Smartpower
Protection classification	IP20

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