

Nitro Motorheizer EX1Pro/

Nitro Engine Heater EX1 Pro

Betriebsanleitung /

Operating Manual



CE-konform gemäß EU-Richtlinien /

CE compliant according to EU directives


Hersteller: ExigeRC/

Manufacturer: ExigeRC

1. Product Description

The Nitro Engine Heater EX1 Pro is an electronically controlled heating system designed for safe and efficient preheating of RC nitro engines. The integrated dual-MOSFET timer control (internal DDC system) precisely manages heating cycles and duration. The EX1 Pro is fully enclosed in a robust housing and powered via an XT60 connector (12–15 V DC). A built-in fan ensures even heat distribution through the entire engine.

2. Safety Instructions

-  Read this manual carefully before use.
- Operate only with a 12–15 V DC power supply.
 - Do not leave the device unattended while operating.
 - The housing can reach over 70 °C during operation – risk of burns!
 - Do not place metallic or wet objects on the device.
 - Do not use damaged cables or connectors.
 - Modifying the electronics voids warranty and CE compliance.

3. Technical Specifications

Supply Voltage	12–15 V DC
Power Consumption	120 W heater element + 5 W fan
Connector	XT60 DC-connector
Control Unit	Integrated dual MOSFET electronics
Protections	Electronic overcurrent, short-circuit and thermal protection
Recommended cable	≥1.5 mm ² (2.5 mm ² recommended for lengths >1 m)

4. Installation & Commissioning

The control and heating system is fully enclosed in a durable housing. External connection is made via an XT60 connector (DC input 12–15 V). Correct polarity (+ / -) must be observed. The output to the heating element is internally wired and must not be modified.



5 Operation & Programming

Operation and programming of the integrated control electronics follow the dedicated module manual. Parameters such as OP, CL, and LOP values and auxiliary functions (e.g. emergency stop) are set according to the procedures described in the module documentation. The following summarizes the supported program numbers and functions:

Control Panel



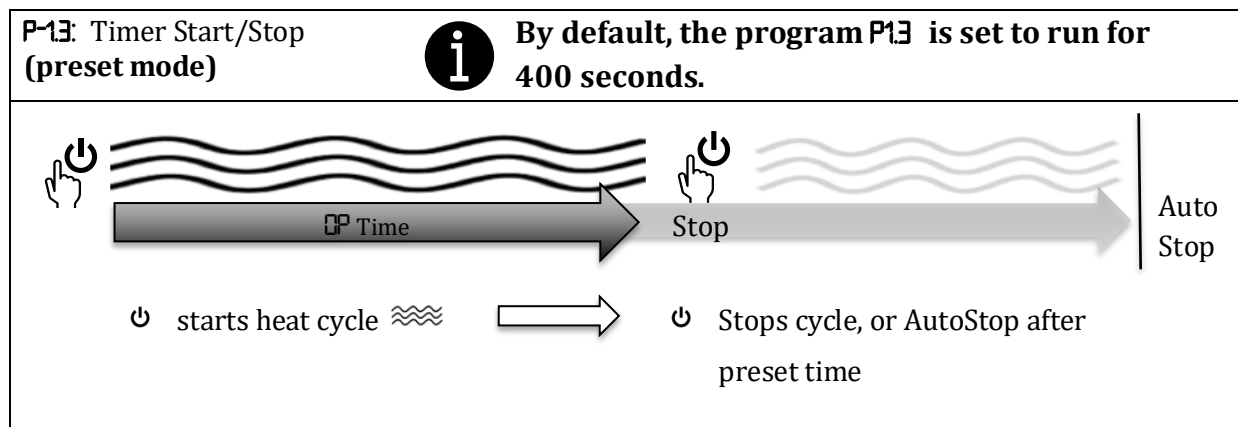
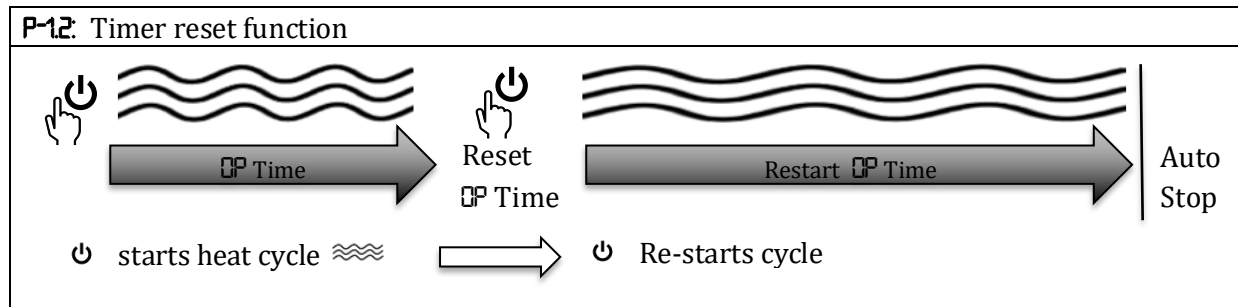
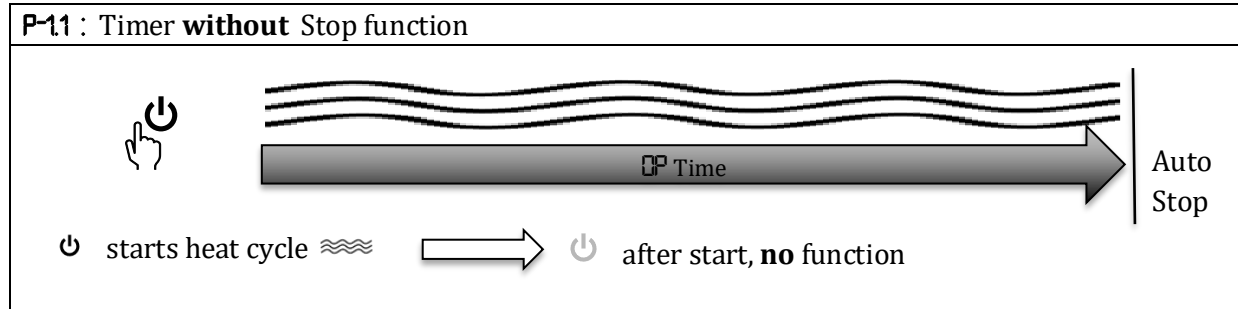
Program Modus

There are 7 different time control programs.: P1.1 ; P1.2; P1.3 ; P-2; P3.1; P3.2; P-4

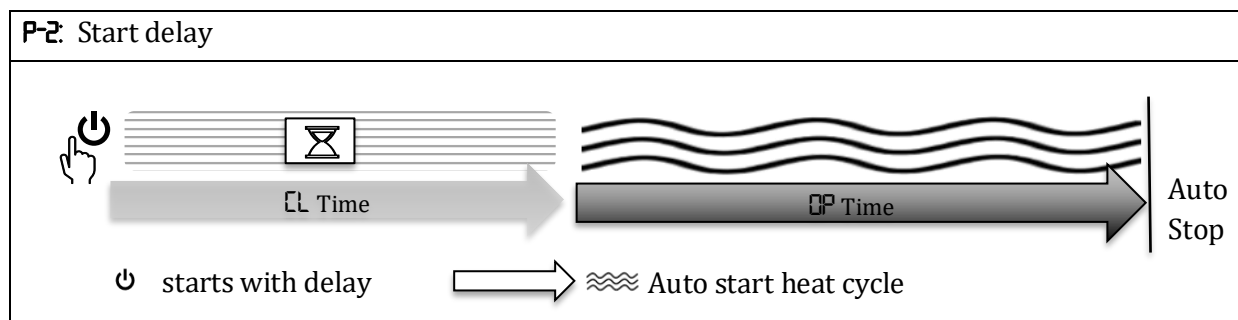
Program selection menu: Press and hold the Mode button ► for 3 seconds.

Program selection: Up ▲ or ▼ Down.

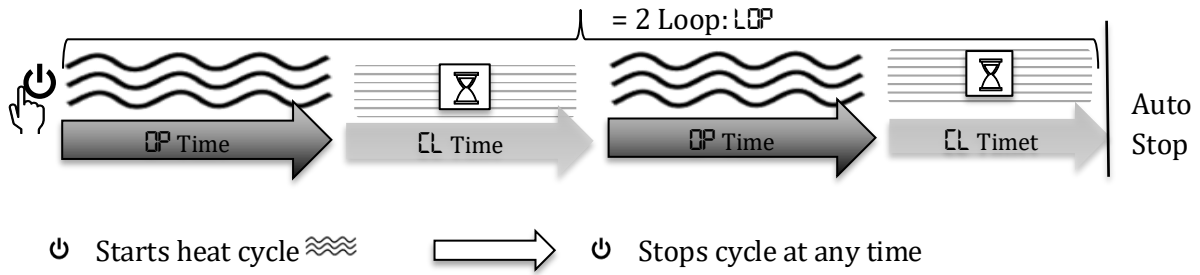
Standard Programs



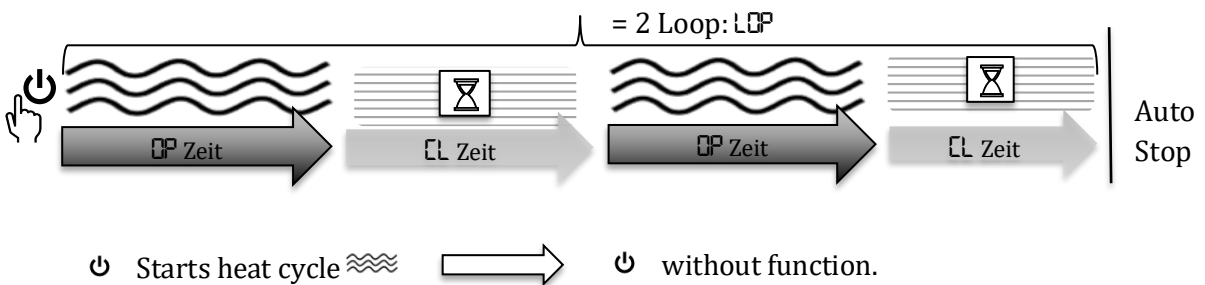
Start Delay



P-3.1: Loop mode with stop function



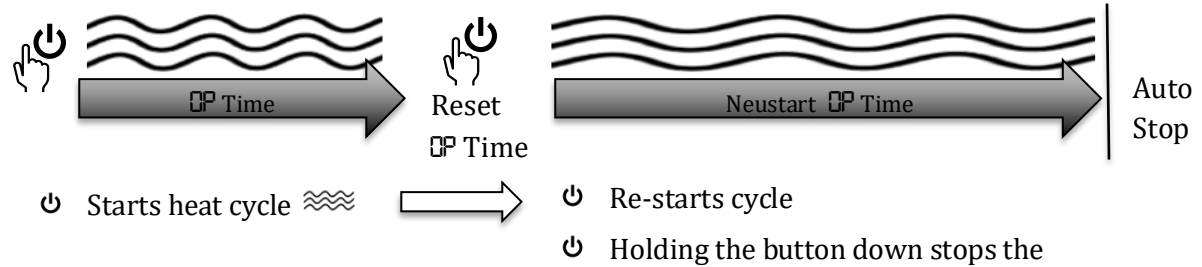
P-3.2: Loop Modus Auto Start ohne Stop Funktion



The cycle can be interrupted with the On/Off button **X**.

i Any number of loop cycles can be set. --- means "infinite".

P-4 Manual Timer Stop




i In most use cases, program **1.3** is used.


Display


OP	Heating time	ON	On
CL	Delay time	OFF	Off
LOP	Number of cycles(---infinite cycles)	C-P	Sleep mode on
000	Standard time view	0-d	Sleep mode off

Time display & settings

The display is adjustable from 0-999 minutes. Depending on the dot on the display, the time is shown in 1/10 of a second, seconds, or minutes.











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Display mode: Tenths of a second.
Example: 00.5 corresponds to 0.5 seconds.
- 

Display mode: Seconds.
Example: 005. corresponds to 5 second.
- 

Display mode: minutes.
Example: 0.05. corresponds to 5 minutes

Set heating time & display resolution

- Press  (Mode) für 3 sec. The selected program function is flashing 
- Press  again. The display switches to the time setting; the screen flashes. 
- Pressing the button  allows you to switch between the different display settings.  >  > 
- By pressing the buttons,  and  the respective time can be increased or decreased.

6. Additional Functions

- Emergency stop: Short press of STOP ends the current process.
- Sleep mode: Turns off display after inactivity; heating continues in background.
- Time scale adjustable: 0.01 seconds to 999 minutes.
- Infinite cycle: LOP = “---” enables continuous operation.

7. Maintenance

- The device is maintenance-free.
- Clean only with a dry cloth.
- Do not use solvents or compressed air.

8. Troubleshooting

No function → Check power supply.
Heater not starting → Verify button connection.
Display off → Check power or polarity.
Overheating → Turn off device and allow to cool.

9. Disposal

Dieses Produkt darf nicht im Hausmüll entsorgt werden. Entsorgen Sie es gemäß der WEEE-Richtlinie (2012/19/EU).

This product must not be disposed of with household waste. Dispose of it according to WEEE Directive (2012/19/EU).

10. CE Conformity

This product complies with the essential requirements of the following EU directives:

- 2014/35/EU – Low Voltage Directive
- 2014/30/EU – EMC Directive
- 2011/65/EU – RoHS Directive

11. Manufacturer Contact

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