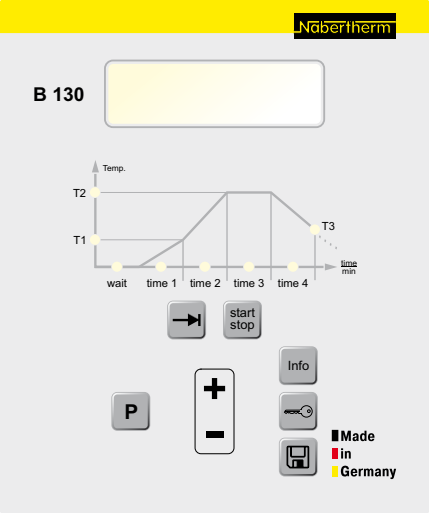
Advantages of our Controllers



B 130

- Ease of use and reliability are the major considerations in the development of our controllers.
- A clear key arrangement facilitates programming of the controller.
- All times and temperatures can quickly be read on the large-sized, high-contrast display.
- A number of different individual firing profiles can be saved (depending on the model).
- LEDs clearly display each program segment.
- Important information such as power consumption, operating time, and error messages can easily be called up via the Info key.

Key Descriptions

P — Program key for selecting a program

→| — Key for jumping to the next segment

start stop — Key for starting/ending the running program

+ / − — Main key for changing values on the display (temperatures/times)

Save key for saving your own programs

Lock key for locking the controller so that no changes can be made to the program (B 130 and C 280)

Info — Pressing this key calls the information menu, which contains the following data:

- Power consumption
- Operating time
- Program runtime and temperature
- Fault memory
- Heating output

Additional keys of Controllers C 280, P 300, P 310

Extra 1 — Key for activating an extra function such as a cooling fan (C 280, P 300, P 310)

Skip key for prematurely changing segments (P 300, P 310)

1 / 2 — Output key for heating circuits (P 310 only)

Process Control and Documentation

Nabertherm has many years of experience in design and construction of standardized and customer-friendly control units. The controllers distinguish themselves by a very high operating convenience and provide extensive basic functions from the basic model on.

Standard Controllers

Our extensive line of standard controllers satisfies most customer requirements. Based on the specific furnace model, the controller regulates the furnace temperature reliably. The standard controllers are developed and fabricated within the Nabertherm group. When developing controllers, our focus is on ease of use. From a technical standpoint, these devices are custom-fit for each furnace model or the associated application. From the simple controller with an adjustable temperature to the control unit with freely configurable control parameters, stored programs, PID microprocessor control with self-diagnosis system and a computer interface, we have a solution to meet your requirements.

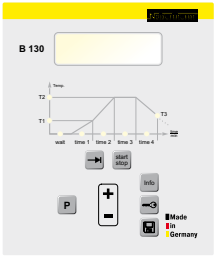
Allocation of the Standard Controller to the Furnace Groups

	Top 16/R - Top 100	Top 140 - Top 220	HO 70.. - HO 300	N 40E - N 100E	N 140E - N 500E	N 100 - N 660/H	NB 300 - NB 600	GF 75 - GF 1050	GFM	F 30 - F 110	F 220	MF 140	MF 5	LE 2/11 - LE 4/11	LE6/11 - LE 14/11
Catalog page	4 - 6	4	6	8	9	10	14	16	18	20	20	22	22	23	23
Controller															
B 130	●	●	●	●	●	●	○								
C 280	○	○	○	○	○	○	○								
P 300	○	○	○	○	○	○	○	●	●	●			●		○
P 310		○				○					●	●			
R 6														●	
B 150															●

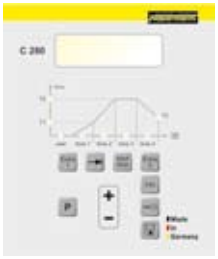
Functionality of the Standard Controllers

	B 130	C 280	P 300	P 310	R 6	B 150
Number of programs	2	9	9	9	1	1
Segments	4	4	40	40	1	2
Extra functions (e.g. fan or autom. flaps)		2	2	2		
Maximum number of control zones	1	1	1	2	1	1
Status messages in clear text	●	●	●	●		●
Start time configurable (e.g. to use night power rates)	●	●	●	●		●
Operating hour counter	●	●	●	●		●
Auto tune	●	●	●	●		●
Program entry in steps of 1 °C or 1 min.	●	●	●	●	●	●
Keypad lock	●	●				●
Skip-button for segment jump			●	●		●
Drive of manual zone regulation				●		
Interface for MV software	○	○	○	○		○
kWh meter	●	●	●	●		●
Data input via number pad			●	●		

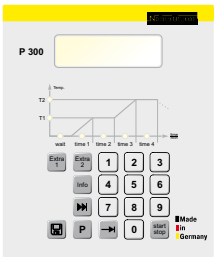
● Standard
○ Option



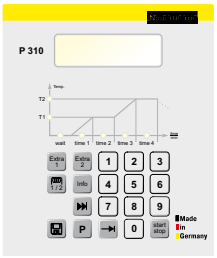
B 130



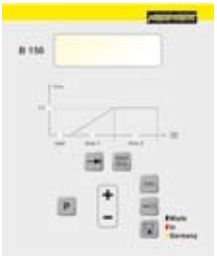
C 280



P 300



P 310



B 150

Interface/Software MV

For easier programming and documentation of your controllers, we offer our Controltherm Software. This system lets you connect up to 16 furnaces to a PC. From here you may edit and download programs, monitor firing progress and store historical data for all your firings. Data may be exported to Excel for easier manipulation.

Supply Voltages for Nabertherm Furnaces

1-phase: All furnaces are available for 110 V - 240 V, 50 or 60 Hz.
3-phase: All furnaces are available for 200 V - 240 V and/or 380 V - 480 V, 50 or 60 Hz.