



## **Characteristics**

Controller C 6 is an electronic temperature regulator with the following technical features:

- one heating-up ramp, setable in minutes (time to reach the set temperature)
- one endless holding time of set temperature (until furnace is switched-off manually)
- one memory-chip that memorizes all set values
- pre-adjusted (but changeable) regulating parameters.

## Safety

Controller C 6 is equiped with several electronic safety components.

In case of a failure the furnace will switchoff and the error is shown on the display of controller C 6.

## Indications of failures

- F3: thermocouple defective (measuring circuit interupted)
- F4: connection of thermocouple mixed-up
- F6: controller defective
- F7: safety relais has switched-off the furnace

For removal of failures: Please contact Nabertherm servicedepartment.

	press key	answer	comments
Setting of a temperature		e e	
<ol> <li>Recall input key T</li> <li>Choosing of desired position on the</li> </ol>	<b>T</b>	Diode <b>T</b> is flashing, diode in the display is flashing	With <b>T</b> the working temperature is defined.  Press control-keys of input crosskey.  Control keys change the values from
display  3. Input of required temperature		Desired value will be shown on the display, after approx. 10 sec the actual value is displayed	O - 9.  By pressing the keys <b>start</b> or <b>stop</b> the controller will immediately leave the input mode. If no value for time is set the furnace will heat-up with full power to the set temperature.
If the required temperature should be read a fixed time the heating-up time ramp mus	ched within it be set as follows:		
	•		
Setting of heating-up ramp:  1. Press input key time	time	Diode <b>time</b> is flashing, diode in the display is flashing	With time the heating-up ramp is defined.

	press key	answer	comments
2. Choose desired position on the display			Press control keys  of input cross-key
	(a)	Desired value will be shown on the display, after	Control keys ▲ ▼ change the values from 0-9.
3. Set desired time	<ul><li>(a) (b)</li><li>(b)</li><li>(c)</li><li>(d)</li><li>(d)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)</li><li>(e)<!--</td--><td>approx. 10 sec the actual value is displayed</td><td>By pressing the bottom <b>start</b> the set value will be memorized and the program will be started automatically.</td></li></ul>	approx. 10 sec the actual value is displayed	By pressing the bottom <b>start</b> the set value will be memorized and the program will be started automatically.
Starting a program			Diode <b>time</b> is enlighted until the set temperature is reached.
1. Press function key <b>start</b>	start	Diode <b>start</b> is flashing.	Diode M is only enlighted when the heating is switched-on. Diode T is only enlighted if the set temperature is reached and as long as the furnace is not switched-off manually.
Finishing a program			The program will be finished immediately
1. Press function key <b>stop</b>	stop	Diode <b>stop</b> is flashing.	All other diodes will switch-off. Nevertheless, the set values remain memorized.
Controller C 6 has got pre-adjusted regu			
not to change the adjusted values withou	it busic knowledge of	eguium teeminee.	<i>*</i>
not to change the adjusted values withou Setting of regulating parameters	is basic knowledge of	togularing tooliness	in the state of th
	(a) (b) + (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Diodes <b>time</b> and <b>T</b> are flashing, diode in the display is flashing. Display shows	
Setting of regulating parameters	(a) (b) + (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	Diodes <b>time</b> and <b>T</b> are flashing, diode in the display is flashing.	
Setting of regulating parameters  1. Recall regulating parameters		Diodes <b>time</b> and <b>T</b> are flashing, diode in the display is flashing. Display shows	also be changed during a running program  Pre-adjusted parameters: $P = 4$ $I = 200$
Setting of regulating parameters  1. Recall regulating parameters  2. Choose desired position in the display		Diodes <b>time</b> and <b>T</b> are flashing, diode in the display is flashing. Display shows	P = 4 $I = 200$
Setting of regulating parameters  1. Recall regulating parameters  2. Choose desired position in the display  3. Set desired parameter		Diodes <b>time</b> and <b>T</b> are flashing, diode in the display is flashing. Display shows P = 4	also be changed during a running program  Pre-adjusted parameters: $P = 4$ $I = 200$