

Kiln
Control and
Documentation



Our controller AC590 was developed and is produced within the Nabertherm Group. When developing controllers, our focus is on ease of use. The potter/ceramist can choose between 24 languages, the controller is custom-fit for each kiln model or the associated application. The AC590 is equipped with an integrated USB-interface for documentation of firing data (NTLog/NTGraph) and can also be used for cone firing in addition to free program input.

Reliability and ease of use are top priorities in the development of our controllers!



NTLog Basic for Nabertherm controller: recording of firing data with USB-flash drive



Freeware NTEdit for convenient program input via Excel™ for MS Windows™ on the PC



Freeware NTGraph for evaluation and documentation of firings using Excel™ for MS Windows™ on the PC



MyNabertherm app for online monitoring of the firing can be downloaded on mobile devices free of charge



Controller can be switched to "Solar Mode" to take advantage of electricity from PV systems with and without battery



Cone-Firing Assistant "Conny"



Nabertherm Controllers Series 500



I'm the big brother of analog buttons and turning switches. I am the new generation of control and intuitive operation. My skills are highly complex, my operation is simple. I can be touched and speak 24 languages. I'll show you exactly which program is running and when it ends.



The controller series 500 impresses with its unique scope of performance and intuitive operation. In combination with the free "MyNabertherm" smartphone app, monitoring your furnace is even easier and more powerful

than ever before. The operation and programming takes place via a high-contrast, large touch panel, which shows exactly the information that is relevant at the moment.

"I was immediately able to work intuitively with the controller."

Samet can Alis
sametcanalis.com

Standard equipment

- Transparent, graphical display of temperature curves
- Clear presentation of firing data
- 24 operating languages selectable
- Consistent, attractive design
- Easily understandable symbols for many functions
- Precise and accurate temperature control
- User levels
- Program status display with estimated end time and date
- Cone firing assistant "Conny" for easy start of your program
- Up to 50 programs with each 40 segments
- Documentation of firing curves on USB storage medium in .csv file format
- Service information can be read out via a USB stick
- Clear presentation
- Plain text display
- Can be configured for all furnace families
- Can be parameterized for different firings
- "Solar Mode" to utilize electricity from photovoltaic systems with and without a battery
- Delayed start possible



Cone-Firing Assistant "Conny"

Our cone-firing assistant "Conny" makes your kiln starting easier than ever before. A horizontal, scrollable wizard helps you to select the most important firing steps for the desired cone firing.

Firstly, select "Conny" - upper left file, Ceramic vase symbol.



Next you select the firing mode.



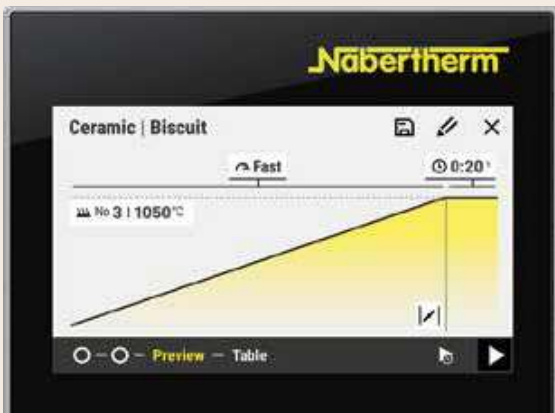
Thirdly, you select an optional preheating time and the correct cone no.



In the fourth step you can select the speed and holding time. Optionally, the kiln can be pre-programmed with a delayed start.



Now, you can start directly your kiln. Or you have an optional graphic preview or a tabular overview of the selected cone firing.



	01	02	03
Temperature	600 °C	950 °C	950 °C
Time	8:00 h	4:20 h	0:20 h

Highlights of Controller AC590

Modern design



Colored display of temperature curves and firing data

Simple programming



Simple and intuitive program input via touchpanel (up to 50 programs with each 40 segments)

Integrated help function



Information on various commands in plain text

Program management



Temperature programs can be saved as favorites and in categories

Segment player



Detailed overview of firing information, including setpoint, actual value and switched functions

Wi-Fi-capable



Connection with the MyNabertherm app



Intuitive touch screen



Easy program input and control



Precise temperature control



User levels



Firing data documentation on USB

You can find more information about Nabertherm controllers, firing data documentation as well as tutorials on how to use the devices on our website: nabertherm.com/en/series-500



Functions of Standard Controllers

	AC590
Number of programs	50
Segments	40
Extra functions (e.g. fan or automatic flaps) max.	6
Maximum number of control zones	1
Drive of manual zone control	●
Self-optimization	●
Real-time clock	●
Graphic color display	●
Graphical display of temperature curves (program sequence)	●
Status messages in clear text	●
Data entry via touchpanel	●
Entering program names (e.g. "glaze firing")	●
Keypad lock	●
User levels	●
Skip-button for segment jump	●
Program entry in steps of 1 °C or 1 min.	●
Start time configurable (e.g. to use night power rates)	●
Switch-over °C/°F	●
kWh meter	●
Operating hour counter	●
Set point output	●
NTLog Basic for Nabertherm Controller: Recording of firing data with a USB flash drive	●
Malfunction memory	●
Number of selectable languages	24
Wi-Fi-capability ("MyNabertherm" app)	●
Solar mode	●

● Standard



Unique Range of Features.

Supply voltages for Nabertherm furnaces

The connected load in the catalog refer to the standard furnace with 400 V (3/N/PE) or 230 V (1/N/PE). Other supply voltages on request.

The MyNabertherm App

for mobile monitoring of firing progress

Our free MyNabertherm app is the powerful, digital accessory for Nabertherm Series 500 Controllers. Use the app for convenient online progress monitoring of your Nabertherm kilns – from your office, while on the way or from wherever you wish. The app always keeps you in the picture. Just like the controller itself, the app is also available in 24 languages.

App-functions

- Convenient monitoring of one or more Nabertherm kilns simultaneously
- Clear presentation as a dashboard
- Individual overview of a kiln
- Active/Inactive kilns
- Operating status
- Current firing data

Display of program progress for each kiln

- Graphic presentation of the firing progress
- Display of furnace name, program name, segment information
- Start time, program run time, remaining run time
- Display of additional functions such as fresh-air fan, exhaust air flap, etc.
- Operating modes as symbols

Push notifications in case of malfunctions and at program end

- Push notification on the lock screen
- Error messages with description of the malfunction in the individual overview and in a message list

Contacting with service possible

- Stored kiln data facilitate rapid support for you

Requirements

- Connection of the kiln to the Internet via the customer's Wi-Fi
- For mobile devices with Android (from version 9) or IOS (from version 13)

No matter where you are, you always know the status of your firing!



Convenient monitoring of one or more Nabertherm furnaces simultaneously



Display of program progress for each kiln



Easy to contact



Monitoring of Nabertherm kilns with controller series 500 with touch operation

Everything on display in the new Nabertherm app for the new controller series 500. Get the most out of your furnace with our app for iOS and Android. Don't hesitate to download it now.



Any addition of Nabertherm kilns



Push notifications in case of malfunctions



Clear context menu

NTGraph and NTEdit

firing data storage and program input via PC

Would You Like to Save Your Firing Data or Enter Programs on the PC?

There are various options for evaluation and program input the firings for optimal firing data documentation and firing data storage. The following options are suitable for data storage when using the standard controllers.

Data storing of Nabertherm controllers with NTLog Basic

NTLog Basic allows for recording of firing data of the connected Nabertherm Controller AC590 on a USB stick. The firing data documentation with NTLog Basic requires no additional thermocouples or sensors. Only data recorded which are available in the controller. The data stored on the USB stick (up to 130.000 data records, format CSV) can afterwards be evaluated on the PC either via NTGraph or a spreadsheet software used by the customer (e.g. Excel™ for MS Windows™). For protection against accidental data manipulation the generated data records contain checksums.

Visualization with NTGraph for MS Windows™ for single-zone controlled kilns

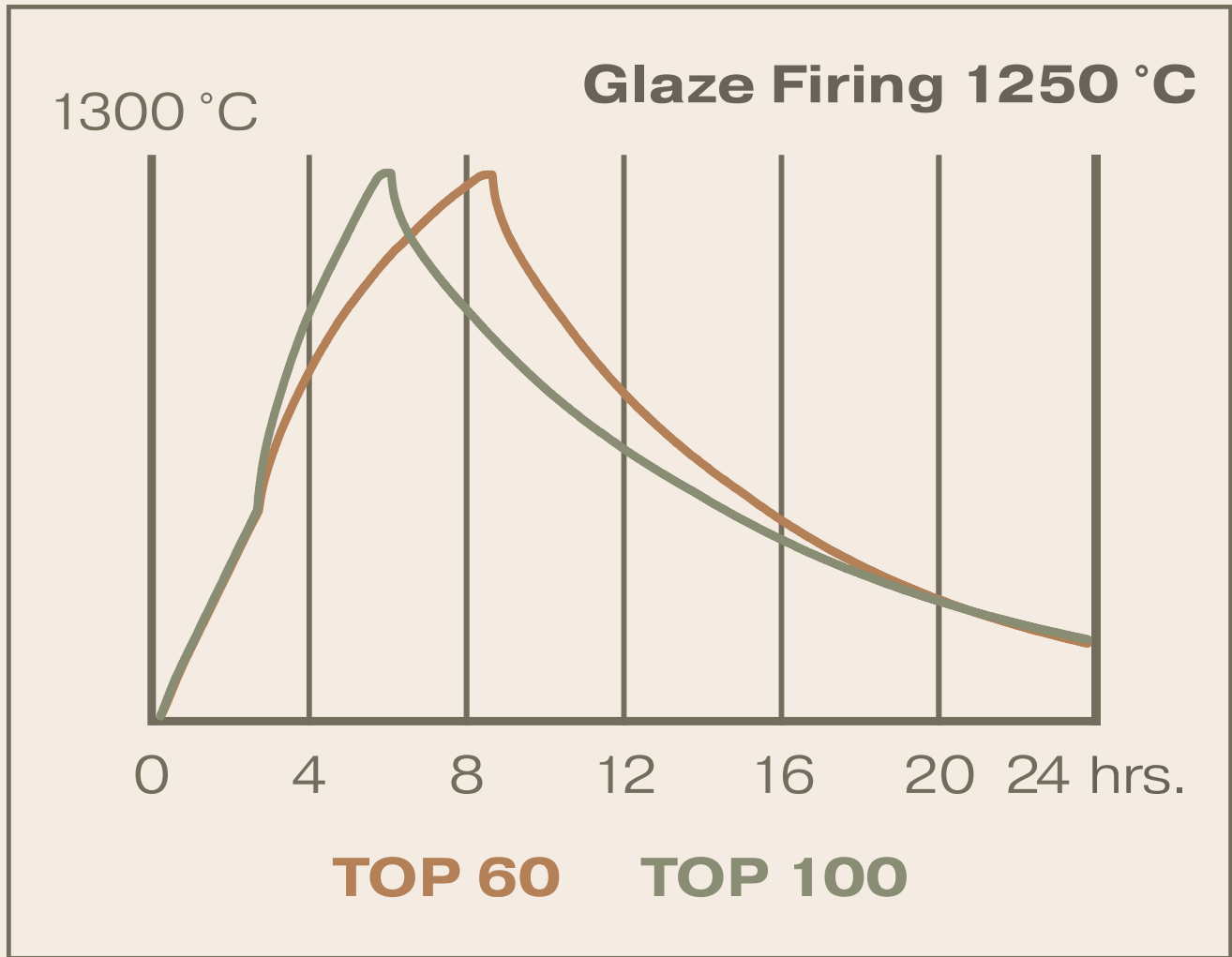
The firing data from NTLog can be visualized either using the customer's own spreadsheet program (e.g. Excel™ for MS Windows™) or NTGraph for MS Windows™ (Freeware). With NTGraph Nabertherm provides for an additional user-friendly tool free of charge for

the visualization of the data generated by NTLog. Prerequisite for its use is the installation of the program Excel™ for MS Windows™ (from version 2003). After data import presentation as diagram, table or report can be chosen. The design (color, scaling, reference labels) can be adapted by using prepared sets. NTGraph is available in eight languages (DE/EN/FR/ES/IT/CN/RU/PT). In addition, selected texts can be generated in other languages.

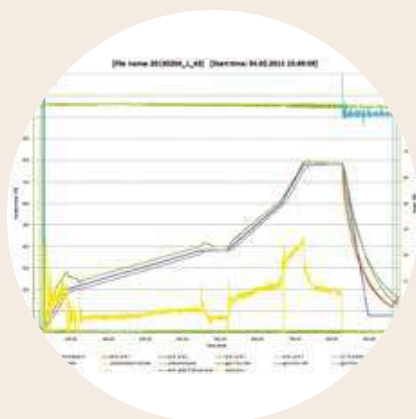
Software NTEdit for MS Windows™ for entering programs on the PC

By using the software NTEdit for MS Windows™ (Freeware) the input of the programs becomes clearer and thus easier. The program can be entered on customers PC and then be imported into the controller AC590 with a USB stick. The display of the set curve is tabular or graphical. The program import in NTEdit is also possible. With NTEdit Nabertherm provides a user-friendly free tool. A prerequisite for the use is the client installation of Excel™ for MS Windows™ (from version 2007). NTEdit is available in eight languages (DE/EN/FR/ES/IT/CN/RU/PT).





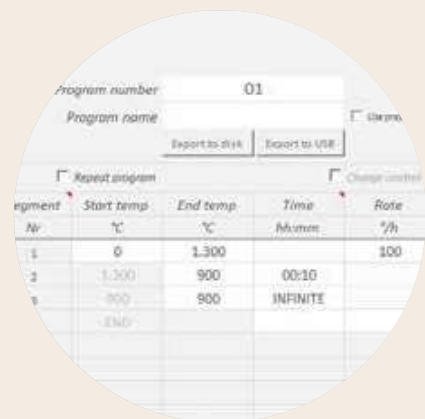
Example curve of a glaze firing



NTGraph, a freeware for the easy-to-read analysis of recorded data using Excel™ for MS Windows™



Recording of firing data of the connected controller via USB stick



Firing data input via NTEdit software (freeware) for MS Windows™

