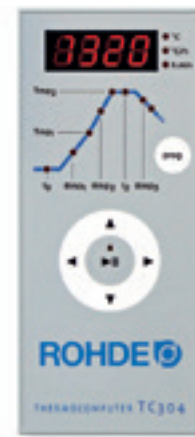# ROHDE **CONTROLLERS**

Kiln controller TC 304

Range of application:
Ceramics, laboratory

Clearly structured control unit and easy to operate,
for use in workshops, schools and hobby rooms.

- 5 firing programs, freely adjustable
- Delayed start programmable
- 1 dwell/soak time freely programmable

Kiln controller TC 504

Range of application:
Ceramics, laboratory, heat treatment

High-performance control unit with highest security
standard and high comfort suitable for demanding
workshop and laboratory applications. Equipped
with 2- or 3-zone control (optional).

- 10 firing programs, freely adjustable
- Delayed start programmable
- 2 dwell/soak times freely programmable
- 1 additional switch output

Kiln Controllers **TC 304** and **TC 504**

Technical data	TC 304	TC 504
Control range / Steps	0-1320°C / 1°C Steps	0-1320°C / 1°C Steps
LED display Setpoint value	4 digits	6 digits
LED display Actual value	4 digits	6 digits
Display of units	•	•
Display of firing stages	•	•
Event control	-	For possible configurations
Zone control	-	please see valid price list
Error message	•	•
Safety lock	-	•
Display electricity consumption	-	•
Protection against over-temperature	•	•
Firing chamber monitoring	-	•
Optional printer port	-	•
Programs	5 free	10 free
Segments	2	2
Program delay	0:00-9:59 h	0:00-99:59 h
1. heating rate	1-999°C / h and Full	1-999°C / h and Full
Switch point	20-1320°C	20-1320°C
1. dwell time	-	0:00-99:59 h
2. heating rate	1-999°C / h and Full	1-999°C / h
2. dwell time	0:00-9:59 h	0:00-99:59 h
Cooling down rate	1-999°C / h and Full	1-999°C / h
Size (w x l x h) / Weight	80 x 153 x 22 mm / 340g	110 x 220 x 60 mm / 450g

Kiln controller TC 88e

Range of application:
Ceramics, laboratory, heat treatment, fusing

High-performance compact control unit with flexible
adjustment of programs with up to 15 consecutive
segments. Works reliably with highest possible safety
in glass, metal and ceramic applications.

- 15 firing programs, freely adjustable
- Delayed start programmable
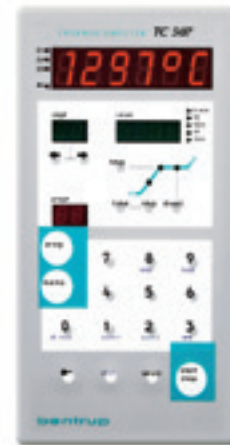- Up to 15 segments freely programmable

Kiln controller TC 507

Range of application:
Ceramics, laboratory, heat treatment, fusing

High-performance 30-segment control unit with
highest safety standards and many special features.
Suitable for demanding workshop and laboratory
applications, as well as glass fusing. Equipped
with 2- or 3-zone control (optional).

- Up to 30 firing programs, freely adjustable
- Delayed start programmable
- Up to 30 segments freely programmable
- 2 additional switch outputs (optional)

Kiln controllers **TC 88e** and **TC 507**

Technical data	TC 88e	TC 507
Control range / Steps	0-1320°C / 1°C Steps	0-1320°C / 1°C Steps
LED display Setpoint value	4 digits	6 digits
LED display Actual value	4 digits	6 digits
Display of units	-	•
Display of firing stages	•	•
Event control	-	For possible configurations
Zone control	-	please see valid price list
Error message	•	•
Safety lock	-	•
Display electricity consumption	-	•
Protection against over-temperature	•	•
Firing chamber monitoring	•	-
Optional printer port	-	•
Programs	15 free	98 free
Segments	15	48
Program delay	0:00-9:59 h	0:00-99:59 h
1. heating rate	20-1320°C / h and Full	1-999°C / h and Full
Switch point	20-1320°C	20-1320°C
1. dwell time	0:00-9:59 h	0:00-99:59 h
2. heating rate	20-1320°C / h and Full	1-999°C / h
2. dwell time	0:00-99:59 h	0:00-99:59 h
Cooling down rate	20-1320°C / h	1-999°C / h
Size (w x l x h) / Weight	65 x 110 x 60 mm / 350 g	110 x 220 x 60 mm / 450g

ROHDE uses controllers from well-known manufacturers only - from standard controllers to individual, customized process solutions.

Panel-mounted compact controller dTRON

- Compact controller can be integrated into the kiln casing, saving space
- Including ramp function, timer start, manual mode
- Configurable user level enables setting of most important parameters
- Individual controller optimisation to adjust to kiln requirements
- Clear presentation of actual and setpoint values

Panel-mounted comfort controller Dicon Touch

- Alphanumeric display saves 10 programs with up to 50 program segments, 2 events (e.g. air supply and exhaust air flap) individually programmable
- Clear presentation of relevant process values
- Integrated paperless recorder, tamper-resistant data storage
- Process data can be collected using USB device or Ethernet connection and exported to the PC using software
- Integrated timer and time switch for program start
- Available as completely attachable controller

Cascade control / Thyristor controller

Cascade control allows continuous kiln power setting, prevents temperature fluctuations and enables precise kiln control. Exact temperature control of ware to be fired allows for implementation of sensitive processes meeting the highest requirements for exact control. Depending on the type of application, the thyristor works as phase angle, burst firing, or amplitude control.
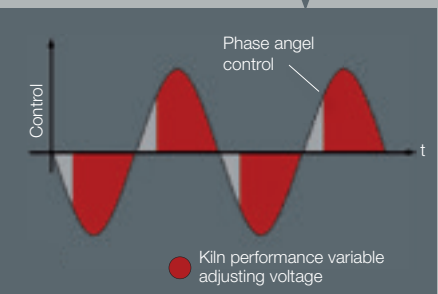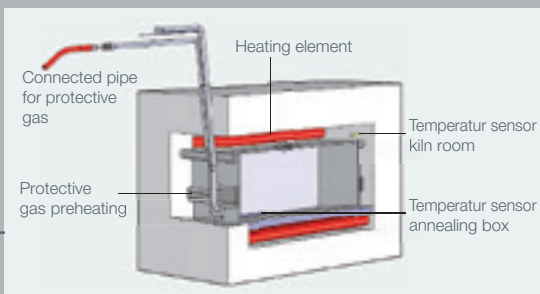
Prozess controller IMAGO 500

Control variable 0-100%

Thyristor controller

Master controller (firing chamber)

Follow-up controller (annealing box)

Heating element

Connected pipe for protective gas

Protective gas preheating

Temperatur sensor kiln room

Temperatur sensor annealing box

Phase angel control

Control

t

Kiln performance variable adjusting voltage

Panel-mounted comfort controller IMAGO 500

- Easy and intuitive to operate, back-lit 5" colour graphic display with multi-channel program and process control with up to 50 programs and 1000 program segments
- Clear presentation of figures, symbols and texts, bargraph display and colours
- Program start programmable using real time clock
- Up to 8 control channels available
- Evaluation of firing curve data on the PC using RJ 45 or RS 485 by PCA user software and PCC communication software

Solutions for network and data storage

Compliance with quality management guidelines often requires documentation of production process values. Data storage systems that are reliable and easy to handle allow these requirements to be met.

Screen recorder LOGOSCREEN nt

- Easy-to-operate rotary knob
- Presents measured values on different diagrams
- Detailed batch reporting
- Including 5.5" TFT colour graphics screen, Ethernet connection and integrated web server
- Evaluation of firing curve data on the PC using RJ 45 or RS 485 by PCA user software and PCC communication software

Professional controller SIEMENS SPS S7-1200 with Panel TP 700 Comfort

- 7" touch screen panel for programming and optimal presentation of program curves
- ROHDE user interface, individually programmable to suit your requirements
- Evaluation of firing curve data on the PC using MS Excel
- Profinet interface for direct network integration, remote control optional

Data storage and SPS control

- Stores process values and firing data (batch denomination, program number etc.) on USB interface
- Saves data in CSV format for further processing with MS Excel

Delivery to a basement, second floor or through a window?
The ROHDE delivery service

ROHDE provides inexpensive, easy and safe delivery and set-up assistance for ROHDE kilns from a single source. The ROHDE delivery service provides safe on-site delivery of your kiln, including on-site instruction and initial operation by ROHDE experts if required. Full insurance from start to finish. Talk with ROHDE about your operating location.

Warranty and spare part service

ROHDE guarantees 3-year warranty (not on heating elements) on almost any ROHDE kiln and thermo-couples. ROHDE and your local retailer are there for you when service is required.

ROHDE assures unlimited supply of spare parts. Spare parts are usually ready for dispatch one workday after receipt of order.

ROHDE always uses environmentally friendly materials and guarantees acceptance of each ROHDE product for recycling of reusable parts or environmentally sound disposal.

ROHDE is there for you

ROHDE is committed to personal service. Contact ROHDE by email or phone, whatever your needs. ROHDE employees are pleased to assist you at any time.

Delivery and set-up service

On-site instruction and initial operation

3-year warranty

Spare parts and service

Environmentally sound materials and recycling

For more information, please
contact your local retailer, visit
the homepage or contact
ROHDE directly.

ROHDE

Helmut ROHDE GmbH
Ried 9
83134 Prutting, Germany
Phone +49 8036 674976-10
Fax   +49 8036 674976-19
info@rohde-online.net
www.rohde-online.net