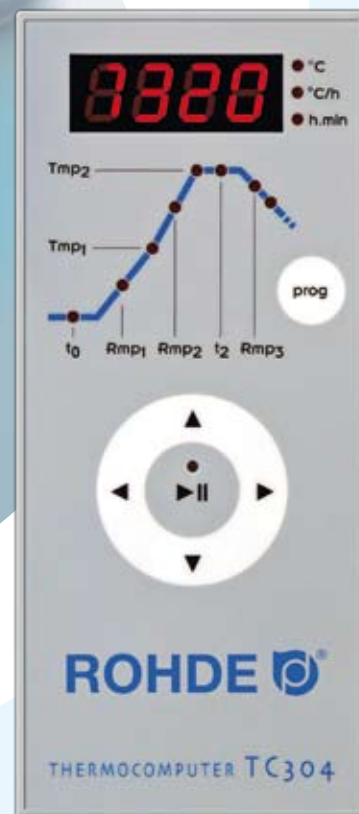




Kiln Control Units



Kiln control units TC



Model	TC 304	TC 504	TC 88e	TC 507
Applications	Ceramics Laboratory	Ceramics Laboratory Heat treatment	Ceramics Laboratory Heat treatment Fusing	Ceramics Laboratory Heat treatment Fusing
Description	Clearly structured control unit – easy to operate in workshop, school and hobby applications.	High-performance control unit with highest safety standards, convenient to operate. Equipped with 2- or 3-zone control. Suitable for demanding workshop or laboratory applications.	High-performance compact control unit with flexible setting of programs with up to 8 consecutive segments. Works reliably with most possible safety in glass, metal and ceramic applications.	High-performance 30-ramp control unit with highest safety standards and many special features. Equipped with 2- or 3-zone control. Suitable for demanding workshop and laboratory applications, as well as glass fusing.
Technical Data				
Temperature control range	0 – 1320°C	0 – 1320°C	0 – 1320°C	0 – 1320°C
LED display Desired Value	1°C steps 4 digits	1°C steps 6 digits	1°C steps 4 digits	1°C steps 6 digits
LED display Actual Temp.	4 digits	6 digits	4 digits	6 digits
Display of units	•	•	–	•
Display of firing stages	•	•	•	•
Event control	–	for possible configurations see valid price list	–	for possible configurations see valid price list
Zone control	–		–	
Error messages	•	•	•	•
Safety locking	–	•	–	•
Display electricity consumption	–	•	–	•
Protection against overheating	•	•	•	•
Optional printer port	–	•	–	•
Programs	5 free	10 free	15 free	80 free
Ramps	2	2	15	30
Warming up time	0:00 – 9:59 h	0:00 – 99:59 h	0:00 – 10:00 h	0:00 – 99:59 h
1. heating rate	1 – 999°C/h and FULL	1 – 999°C/h	20 – 1320°C/h and FULL	1 – 999°C/h
Switching point	20 – 1320°C	20 – 1320°C	20 – 1320°C	20 – 1320°C
1. dwell time	–	0:00 – 99:59 h	0:01 – 10:00 h	0:00 – 99:59 h
2. heating rate	1 – 999°C/h	1 – 999°C/h	20 – 1320°C/h	1 – 999°C/h
(2.) dwell time	0:00 – 9:59 h and Full	0:00 – 99:59 h	0:00 – 10:00 h and Full	0:00 – 99:59 h
Cooling down rate	1 – 999°C/h	1 – 999°C/h	20 – 1320°C/h	1 – 999°C/h
Size (w x l x h)	110 x 220 x 60	110 x 220 x 60	65 x 110 x 60	110 x 220 x 60
Weight	1100 g	1100 g	700 g	1100 g

Process control units



cTRON 08



DICON 500



Siemens Programmable Logic Controller (PLC)

Compact control units integrated into control panel

- Controller can be integrated into the kiln casing for saving space
- Ramp function / timer start / manual programming
- Configurable user panel for setting of most important parameters
- Optimisation for adapting the controller to the kiln
- Clearly arranged display of target and actual values

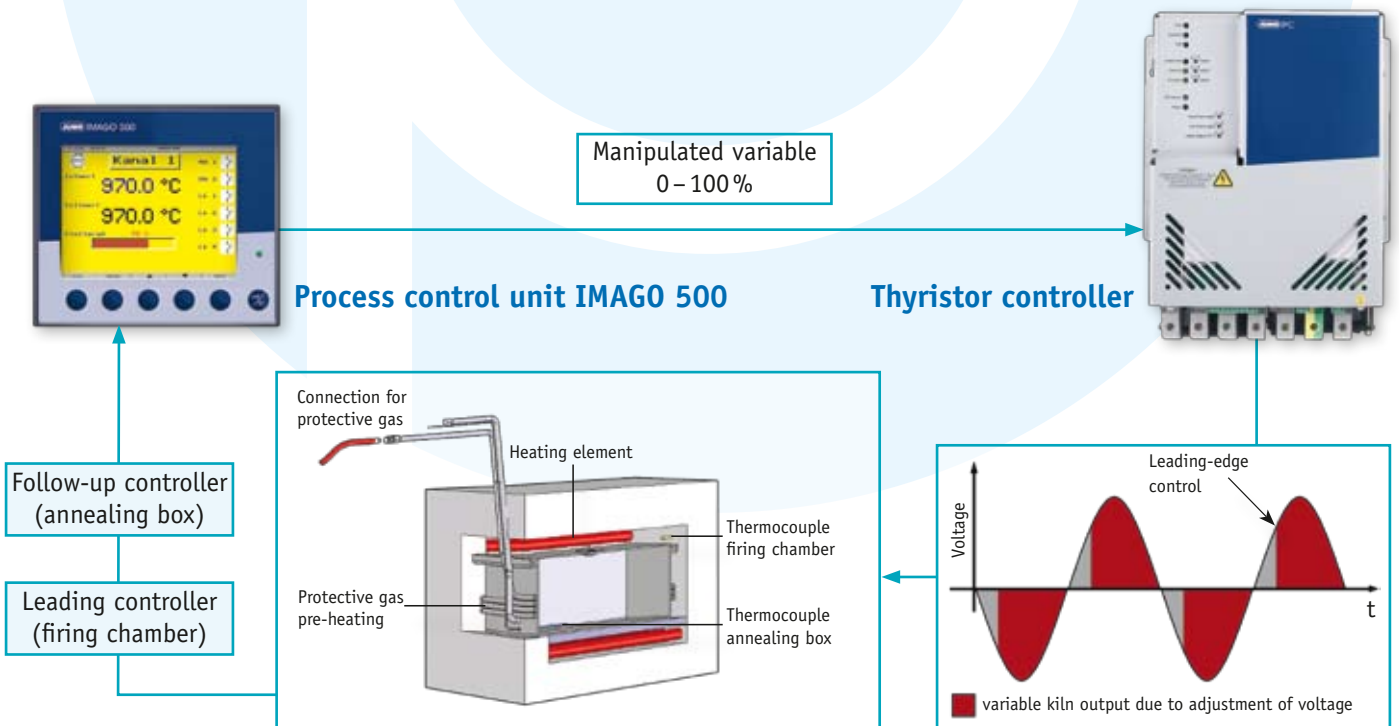
- For customised applications
- Integration of kiln into process control systems
- Safe storage of process data
- Continuous connections of field devices via data processing DP

We use controllers by well-known manufacturers only – from simple standard controllers to individual customised process control units.

Cascade control / thyristor controller

The thyristor controller allows a smooth and continuous setting of kiln performance preventing fluctuations in temperature and achieving an accurate and precise control. The cascade control allows an exact control of temperatures of

goods. Sensible processes requiring exactness of control can be realized. Depending on its range of application the thyristor works as leading-edge control, pulse control or amplitude control.



Documentation of process data is very often recommended for fulfilling standards in quality management. These specifications can be met with data storage systems which are easy to handle and work reliably.

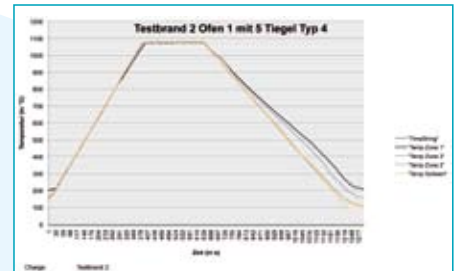
Screen recorder

- Ideal for data storing and archiving in connection with compact and standard control units
- Data can be read out and exported through various interfaces (USB, flashcard, Ethernet)
- The display of process data can be configured by user
- Also available as dot printer



Data archiving with PLC control

- Archiving of process and firing data (charge control, program number etc.) on USB interface
- Data stored as CSV files and exportable into Excel format for further evaluation

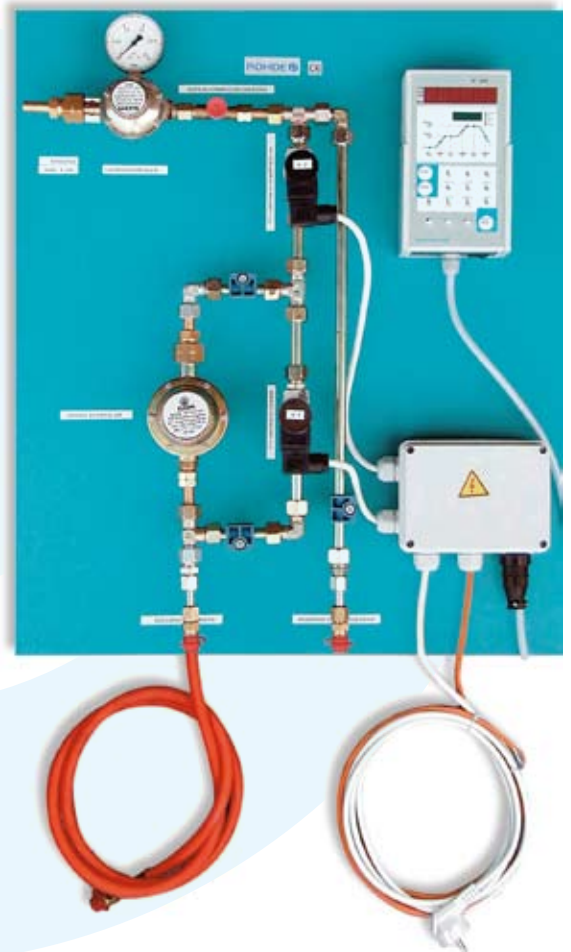


Automatic control of gas for medium pressure burners up to 1.5 bar

With this gas control and the control unit TC 504 (optional TC 507) you can control and monitor the desired firing curve for your kiln, which facilitates achieving reproducible results. The continuous setting of minimal and maximal performance ensures an optimal adjustment to the individual kiln and to the programmed firing curve.

Special features of our gas control:

- Firing curve can be programmed freely
- Burner switches off, when program reaches "end"
- Safety gas valve for automatic switch-off after error message of controller
- Control valve for switching from high to low load
- Continuous setting of high and low load
- Hose breakage protection
- Manual control possible, if electricity breaks down
- Stable unit for wall mounting
- Thermocouple Pt/PtRh 10%
- All gas fittings DVGW certified (German association for gas and water)
- Gas connection with 12 mm Ermeto thread
- Burner connection with quick release fastener
- Designed for a maximum of 4 burners 20 kW each
- Can be equipped for natural gas applications



Your specialised retailer:

For more information please contact your specialised retailer, visit our homepage or contact us directly.

Helmut Rohde GmbH

Ried 9, D-83134 Prutting
 Tel.: +49 (0)80 36/67 49 76-10, Fax: -19
 e-Mail: info@rohde-online.net
 Internet: www.rohde-brennofen.de

Technical changes and dimensional derivations in the course of further development reserved.