



# Tuned In

Our professional controls TC 405, TC 405/30 and TC 605 define a new standard of reliability and overfiring protection. Built-In safety circuits, extended self-tests, and many different check algorithms developed over years, providing the maximum protection for your kiln and product.



TC 405



TC 405/30

Simple in use, the control supports you on entering the firing curves and prevents you from programming erroneous



TC 605

data. You will be surprised how soon you feel confident with your controller!

The numerous features of our professional series are convincing: All firing curves are absolutely

user definable throughout numerous programmes (both fixed and user definable), highly-precise temperature- and programme process display, power breakdown protection, power consumption counter, keyboard lock, printer output, cooling ramp and many more.

### TC 405 oder TC 605?

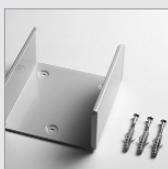
The only difference is how the firing curve is entered. Both units are identical from the technical aspect. On the TC405, you enter the digits keys of the firing curve directly using the digit keys "0" to "9"; on the TC605, you change the values using the keys "+" and "-". The same applies when selecting a segment of the firing curve. On the TC605, you only work with adjustable programmes - the 2nd display reads the number of the present programme. Whether you to decide TC405 or TC605 is just a matter of taste !

## The professional series - the most popular control of its type in Europe

model	TC 405 und TC 605	TC 405/30
<b>description</b>	powerful microprocessor control for craftsman, professional and hobby use; most popular control for all applications and kiln sizes; integrated policeman controller, all safety relevant components are doubled or 100% checked; many useful features	powerful microprocessor control for all professional applications; most popular control for glass fusing and laboratory use;; integrated policeman controller, all safety relevant components are doubled or 100% checked; many useful features, special functions
<b>firing curve</b>	Delay Start 0:00-10:00 hours, First ramp 1°C/h-999°C/h or full-on to adjustable first setpoint, First dwell 0 to 9999 minutes , Second ramp 1°C/h-999°C/h or full-on to adjustable 2nd setpoint, 2nd dwell 0:00 to 99:00 hours, Cooling Ramp 1°C/h to 999°C/h or natural, 1st dwell can be higher than 2nd dwell, all values free adjustable	Any shape of the firing curve: Delay Start 0:00-10:00 hours, up to 30 ramps (adjustable 0,2 °C/h to 9999 °C/h) each followed by a dwell (0 to 9999 minutes), ramps can be defined as "°C/h" or "min to °C", highly precise ramps down to 0,2°C/h, facility for direct control of the program segments
<b>programmes</b>	6 fixed programmes (not on TC 605); additional 9 user definable programmes	6 fixed programmes; depending to programme length up to 84 user definable programmes
<b>safety features</b>	continuous self monitoring / checking, drive of 2nd power relay incl. safety cut off, extended checking or thermocouple break and short circuit conditions, detailed error messages; 100% self checking of the validity and accuracy of the thermocouple signal input	continuous self monitoring / checking, drive of 2nd power relay incl. safety cut off, extended checking or thermocouple break and short circuit conditions, detailed error messages; 100% self checking of the validity and accuracy of the thermocouple signal input
<b>displays</b>	6-digits (incl. units), firing segments	6-digits (incl. units), firing segments (2-digits)
<b>power breakdown prot.</b>	•	•
<b>power consumption display</b>	•	•
<b>operating hours display</b>	•	•
<b>program chaining</b>	-	•
<b>program locking</b>	•	•
<b>optional printer output</b>	•	•
<b>external functions</b>	-	•
<b>accuracy / control type</b>	0,2 % /PI/PID (adjustable)	0,2 % /PI/PID, adjustable with self-tune facility
<b>EMC accord. IEC 801 IV</b>	•	•
<b>approvals</b>	SEV,CE, GS/VDE	SEV, CE, GS/VDE
<b>dimensions in mm</b>	110 x 200 x 60	110 x 200 x 60
<b>weight (w/o plug)</b>	ca. 1100 g	ca. 1100 g

• = yes / - = no

## Available Accessories



### Wall mounting bracket

The wall mounting bracket is used to fix the control near the kiln. The control can be easily removed from the bracket and replaced after programming. The bracket comes complete with screws and wall plugs.



### Sockets

The electrical link to the kiln (power supply 220V, control output for the contactor (220V/1A) and thermocouple) is established using a multipole con-connector (comes with the control). Upon request we also supply the socket ready to fit to the kiln, complete with 1m single-wires.

### Ordering codes:

example:

TC 405 S 1 HAN7Da 1,4

choose:

length of lead in m  
plug (HAN7Da, HAN15Da, CPC14a)  
number of additional control outputs (0/1/2)  
thermocouple (S, R, K, J)  
model (TC 405, TC 605, TC 405/30)