

Application Note AN0103:

How to change the locked configuration values of bentrup controls

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1.) General Informations

Some values of the parameter list are locked for safety reasons (e.g. maximum kiln temperature). This ensures that the customer does not exceed the allowed operation range of the kiln. This instruction enables the authorized personal to adapt the default settings to your requirements. Please make sure that only changes are done that do not exceed allowed limits ! The customer usually should not obtain these instructions to avoid unauthorized change.

Even with this instructions, some parameters are still locked. This applies for adjustments that require the change of further hardware (e.g. lead cable).

2.) Unlocking Procedures

compact series (TC40, TC60, TC60/8)

change of any operation parameter

- turn off the controller
- turn it on again while holding the keys [start stop] and TC40:[↑] / TC60:[prog] / TC60/8:[⇐]
- simultaneously pressed (the segments readings lights up, this indicates parameters unlocked)
- now, enter the parameter list as described in the manual. The parameters now can read and also be changed. Leave the parameter list using the key [⇒] !

Caution: Don't try to change thermocouple code from S or R to J or K (or reverse) ! This will cause error message „F9 3“. *However, changing from S to R (or K to J, or reverse) is possible !*

If you change any parameter and turn off the control without leaving the parameter correctly the controller will read „F8 2“ afterwards. If this happens, enter the parameter list again like described.

professional series (TC405, TC605, TC405/30)

resetting the operation hours counter to 0: During display of the operation hours press key [start stop] (TC605 [↓], TC405/30 [event]) and hold it pressed for about 10 sec. (until display reads „0“)

changing the maximum temperatur or the function of the 2nd relay output (not on TC605):

- unlock the controller by press & hold key [kw/h] when turning on the controller, then enter the parameter list as described in the manual
- make the parameter changes as required
- step to the last parameter, the software revision code
- press the [kwh] key again and the display purges
- now, simultaneously press the left key [↑°C/h] and key [↓°C/h] (on TC405/30: [rate]) and [temp] **quickly** (within 1 second after the display purges) and hold them pressed
- the controller will come up with „no err“ as usual; the changes are now saved

industrial series (TC802, TC804, TC805)

resetting the operation hours counter to 0: During display of the operation hours press key [select] (on TC802: [F]) and hold it pressed for about 10 seconds (until display reads „0“)

changing the maximum temperature and type of thermocouple:

- turn off the control
- turn it back on while holding the following both keys pressed: TC802 [⇒] and [↑], TC804 [⇒] and [kw/h], TC805 [⇐] and [kw/h]
- now, enter the parameter list and do the required changes, leave it properly using the key [⇒]

Caution: A change from thermocouple type S/R to K/J (or reverse) requires that the controller was ordered for type „X“ (which means „selectable“) ! Change from S to R or K to J (or reverse) are possible, but please change the mark on the typelabel accordingly.

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