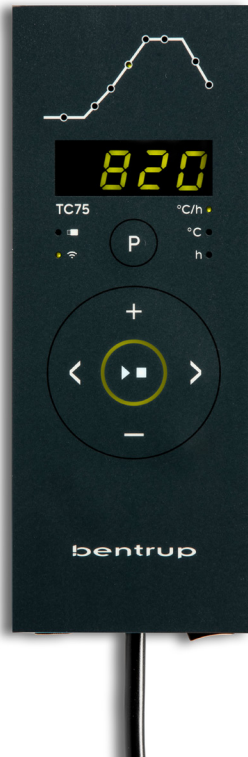


Slim Elegance - The new Compact Series

TC75 and TC95



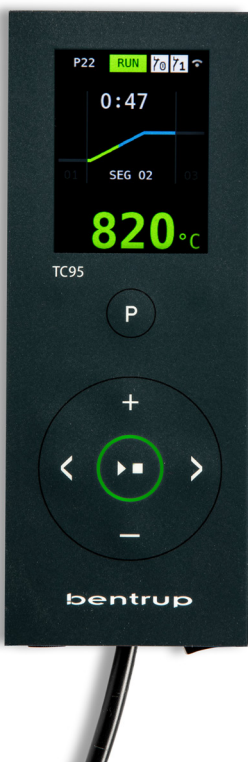
The TC75 for ceramic applications and TC95 for fully flexible temperature profiles comes with an elegance not known yet in this class of kiln controllers.

Featuring an intuitive human interface the controllers are highly simple operate. Both are **SuperWise App** ready - have them on your smartphone or tablet right after registration. No further hardware is needed, log them into your Wifi and you have access from everywhere.

COMPACT CONTROLLER TC75

Compact temperature controller for wall mounting matching all kinds of kilns and processes. Simultaneous reading of important process values, easy operation through intuitive, modern GUI.

- High-contrast LED display
- 6 programs with 4 segments each
- **SuperWise App** ready



COMPACT CONTROLLER TC95

TC95 provides all functionality of TC75 but on top an innovative graphic interface. For the first time and only from bentrup in this device class.

- High resolution 2.8" display
- 20 programs and 20 segments
- Temperature reading changes color for immediate recognition of deviations

bentrup controllers stand for reliability and simple operation since 1984. Check out the wide product range of temperature controllers on www.bentrup.de - starting at compact controllers going up to complex PLC integrated multiloop systems for the industry.

SUPERWISE 

Mobile version

Enjoy the bentrup **SuperWise App** to get your TC75 or TC95 on your smartphone, tablet or PC. Click the link or scan enclosed QR for details.



[SuperWise PDF](#)

SuperWise Keyfeatures

- Monitor the firing process from your smartphone, tablet or PC
- Intervene in the firing process (Start/Hold/Stop)
- Receive alerts and notifications
- Request a free diagnostic report via EMail (**bentrup KilnAssist**)
- Enter programs
- Manufacturer-independent: One App for All

Slim Elegance - The new Compact Series
TC75 and TC95

		TC75	TC95
General Information	Compact handheld wall mounting temperature controller for all types of kilns and processes. Simultaneous reading of important process values. TC95: changing main process color on temperature deviations. Intuitive modern GUI.	complex LED	2,8" TFT
USB interface	Logging of 48 hours of all relevant process data dumped on an USB-Thumbdrive. Event Log dumped as well for ease in finding application, operator or technical issues. Use USB to exchange backup and restore programmes, configuration and firing statistics	option	✓
Technical Data	Powerful 32-bit ARM microprocessor based controller. Non volatile event log (sensor failure, short circuit, power breakdown, user access etc.) and continuous process supervisory. Event log for error tracking and recording. Self validation of all relevant components. Adaptive P/PI/PID controller with continuous auto tune.	✓	✓
Temperature Profile	Number of programs / segments (one segment = ramp followed by dwell)	6/4	20/20
Wifi	WSK / WEP / WPA2 (bentrup SuperWise App)	option	✓
detailed kiln diagnostics	Controller provides diagnostic data of the furnace to SuperWise on request, operator receives free Analysis via email (bentrup KilnAssist)	✓	✓
Electrical Data, Ambient Requirements, Approvals	Energy efficient power supply 85-264 V AC/DC (option 24V), max power dissipation 2W, ambient temperature -10°C to 60°C, air humidity 10% to 90% non condensing, high level of active and passive EMC according to IEC801/4-IV, CE conformity. Suitable for all kiln manufacturers and types. Connects via HAN7D, HAN15D, CPC14 etc. kiln sockets.	✓	✓
Mechanical Data	Wall mounting case 160 x 58mm of industrial ABS plastic, thickness 21mm only, weight 290g, optional stainless steel wall mounting bracket	✓	✓
Analogue Input (Sensor Input)	programmable for thermocouples (S, R, K, J, N, E, B), standardized signals voltage (20mV/50mV/10V) or current (0-20mA, 4-20mA), resistance (0-500R, PT100), internal or external CJC, accuracy 0.05%, resolution 17 bit, acquisition rate 16Hz	✓	✓
Switching Outputs	2 relay outputs max. 8A/250V to directly drive contactors (dry open contacts O/R)	✓	✓
PWM outputs	Pulse width modulation (PWM) outputs for solid state relays (SSR), 14V/60mA each, adjustable rate (1Hz to 10Hz) & pattern, overload/restart feature, error detection/indication	optional	optional

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