



FUTURE FORMAT

Compact Controllers
and Temperature Limiters

R2500 and R2700

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These universal, user-friendly compact units in 1/16 and 1/8 DIN format (48 x 48 and 48 x 96 mm respectively) are well suited for precision control tasks without overshooting, as well as for temperature limiting. Amongst other functions, the controllers can be configured and their parameters can be set both online and offline with the help of the infrared interface which is included at the front panel as standard equipment, and CompactConfig software.

They can be used in machinery and equipment manufacturing, as well as in the food processing and luxury food industries, thanks to IP 67 protection at the front panel.



- IP 67 protection
- Sampling cycle: 100 ms
- Infrared interface at the front panel
- Continuous, step-action and program controllers
- Hot runner control with start-up and booster circuits
- Data logger for actual values and setpoints
- Alarm history with time stamp
- Functionally compatible with R2400 and R2600 controllers

Self-Tuning

The control parameters are optimized by means of a specially developed process which can be started at any desired point in time.

SIL

The safety integrity level (SIL) makes reference to an all-inclusive safety function included with safety relevant systems. A standard was developed for the controllers in compliance with IEC 61508 and IEC 61511.

Temperature Limiting

Temperature limiting functions are in compliance with DIN EN 14597. This European standard applies to electrical and non-electrical temperature control and regulating devices which must assure that temperature does not exceed a specified value.

Technical Data

Measurement inputs	Thermocouple, Pt100, Ni100 0 / 4 to 20 mA, 0 / 2 to 10 V
Heating current monitoring input for current transformers	
Binary inputs	Freely configurable for various functions
Hot-runner functions	Start-up and booster circuits
Heating circuit monitoring	Without additional transformers or parameters
Controller types	2-step, 3-step, continuous-action, step-action, switch, differential, slave (R2700)
Auxiliary voltage	20 to 30 V DC 85 to 265 V AC, 48 to 62 Hz

CompactConfig Software

The controllers can be configured and their parameters can be set both online and offline with the help of an optional IR-USB adapter. Controller characteristics are determined and a wiring diagram is generated automatically by specified applications. Additional features: online viewing of the control process, read-out and storage of values from the data logger and from alarm history, administration of parameter sets.