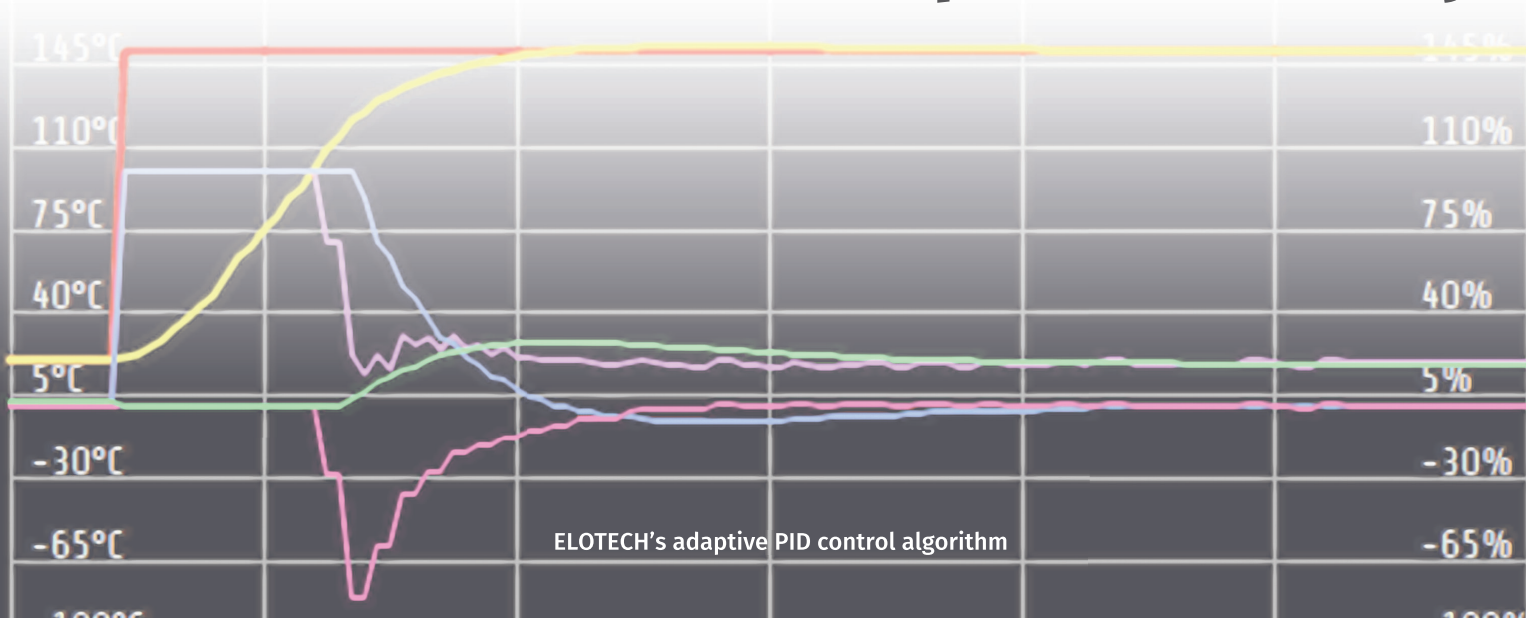**ELOTECH**
INDUSTRIEELEKTRONIK

Hot runner controls of the future

- **Very fast control**
- **Simple, intuitive operation**
- **New operating concepts with Webserver and APP**
- **Outstanding in price and performance**

ELOTECH's RT product family

ELOTECH's adaptive PID control algorithm

Save resources

Fast warm-up without overshooting. This core competence of the ELOTECH PID control algorithm improves the performance of the system. Results are savings in plastics and energy, reduction of wear and tear and increased productivity.

Cascading up to 64 zones

RT7000 with 32 zones

Operation redefined

The intuitive operation is a delight: all functions are readily accessible, self explaining and easy to use.
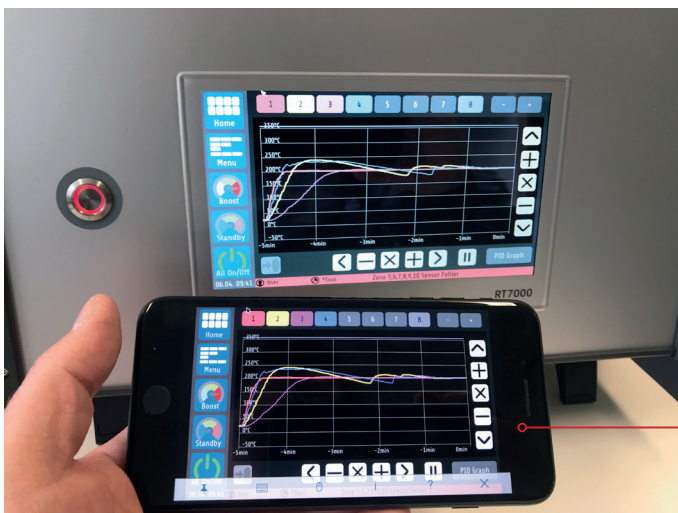
Web server or APP applications also increase the operating convenience. In addition, ELOTECH also offers exclusive cloud solutions based on OPC UA technology.
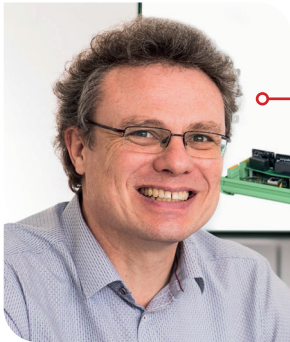
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Scalable controllers

The right system for each application. ELOTECH offers its compact hot runner controls in three formats: RT1000, RT4000 and RT7000. All products are based on the same innovative PID control algorithms. As a standard, ELOTECH supplies its RT7000 controller with up to 32 zones. The system can be extended to up to 64 zones by means of cascading. In addition, ELOTECH offers customised solutions. As a specialist in multi-zone controllers in the industrial environment, ELOTECHS largest PID control applications encompass several hundred control zones.

A different kind of remote control

The RT product family in use

INTERVIEW

Dipl.-Ing. Klaus Lippert
Managing Director
Sales, Marketing, Product Management

Who is ELOTECH Industrieelektronik?

ELOTECH is an internationally operating company based in Hilden, near Dusseldorf. We have been developing and manufacturing controllers, display units and hot runner controls in-house for over 25 years. ELOTECH has its own controller systems with power outputs introduced recently. Hundreds of customers from the machine and plant manufacturing sector use our control systems to precisely control temperatures, pressures or other parameters.

What exactly does ELOTECH Industrieelektronik?

ELOTECH not only manufactures 1-zone and multi-zone controllers with and without integrated power controllers. The product range also includes custom control cabinet variants encompassing several hundred zones. The product portfolio is rounded up by display units, data loggers and custom control solutions, for example for use in temperature control units. Over 250,000 ELOTECH controllers in over 5,000 product variants, all made in Germany, are at work in countless plants and machines.

What specialities does ELOTECH Industrieelektronik offer?

Controller quality at world-class level: ELOTECH's adaptive algorithm is distinguished by rapid warm-up, little overshoot and high dynamics. Operation of controllers via the integrated display is unbelievably simple. Those who want more get more: You can monitor and operate your controller from anywhere using browser solutions or viewer applications.

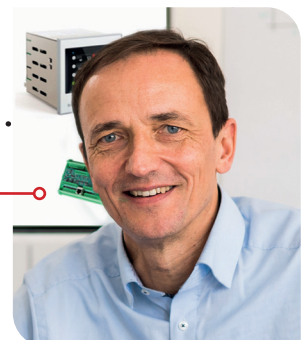### How future-proof are ELOTECH's solutions?

Extremely future-proof: the hot runner controls are connected intelligently with peripheral systems via Profibus, Profinet or OPC UA. Secure and standardised communication from the field device into the cloud can be implemented through OPC UA.

New applications are possible based on the machine-readable semantic descriptions of machine data. ELOTECH is collaborating with university institutes and research facilities on new control algorithms. ELOTECH support and service from Germany ensures short routes, fast reaction times and long-term availability of up to 25 years.

Dipl.-Ing. Karl Mildenberger
Managing Director
Sales, Development, Production

Data sheet

ELOTECH RT product family

Range of functions:	RT1000	RT4000	RT7000
Variants, number of zones	1	1 / 2 / 4 / 6 / 8	8 / 16 / 24 / 32
Cascading of the controller for larger systems	-	-	x
Output ratio generation – from control operation (standard), manual operation, output ratio adoption from zone	x	x	x
Self-optimising of PID parameters	x	x	x
Energy-optimised heating	-	x	x
Soft start / Temperature lowering "Lower" / Boost (temperature increase)	- / - / -	x / - / -	x / x / x
Ramp function / Program Controller / Monitoring	x / x / x	x / x / x	x / x / x
Display of current and power per phase / Grouping of zones	- / -	- / -	x / x
Heater current monitoring / Sensor error detection / System error detection	x / x / -	x / x / x	x / x / x
Automatic checking of the correct assignment of sensor and load	-	-	x
Loading of parameter sets via USB interface	-	x	x
Tool menu – selection of pre-set recipes	-	-	x
Management of 3-levels of users with respectively definable limitations	-	-	x
Log book function – time-sorted illustration of messages, warnings and alarms	-	x	x
Data storage via USB stick (graph, parameters, logbook)	-	x	x
Display	7-Segment	3,5 Zoll	7 Zoll
Capacitive touch	-	x	x
Web server / APP application	- / -	x / -	- / x
Operation via Windows software ELOVISION (bus interface)	x	x	x
Process graph for a precise overview of the work process	-	x	x
Visualised power monitoring	-	-	x
Harting plug (sensors and heating), different versions	-	x	x
Thermocouple J (option: K, L) / 2-wire PT100 as option	x / x	x / x	x / x
Alarm signals (relay) / On-off switch	x / x	x / x	x / x
USB memory interface on the front side / Ethernet interface	- / -	x / TCP/IP	x / DHCP
Option: Bus interfaces (RS-232, RS-485, TTY) with Modbus protocols, etc.	x	x	x
Options: Profibus / Profinet / OPC UA	- / - / -	x / x / -	x / x / x
Mains connection: 2.5 m cable (option: further lengths)	Schuko	Schuko	CEEE
Output continuous operation, per 8-zone controller unit: maximum total current: 30 A / 7 kW at 230 V	-	-	x
Power, continuous operation: 8-zone control unit: Maximum total current: 14 A / 3.2 kW at 230 V	-	x	-
Output single zone: max. 14 A	x	x	x
Sturdy aluminium housing / Passive cooling	x / x	x / x	x / x