



## Adaptive Controller ZEPADIG 10 610

---

### Designed for

- the control of technical processes and it can be used as a universal controller in both simple and branch-chained control circuits

### Advantages

- standard interface RS 232 or RS 485 with galvanically separation
- variety offer of a internal function blocks
- two PID controllers, adaptable PID control
- easy user programming of internal structure
- the possibility of connecting up to 7 analogue input signals
- 4 power output relay for signal or control of actuators
- 3 independent generators of a time variable signals
- high accuracy
- the possibility of the galvanically separation of input and output
- small external admeasurement
- 2 digit displays and one column type „BARGRAF“
- the product comes with a 24-month guarantee.

- this device was designed with a support of EU as project CP 93:9630 in cooperation with the Institutes of Czech Academy of Sciences Prague, Cesame Louvine Belgium and ICC Glasgow.

### Technical data

Input signals	resistance thermometer thermocouples J, K, S, B 0 to $\pm 10$ V 0(4) to $\pm 20$ mA resistance transmitter general resistance sensor
---------------	---

Basic error	0,05 %
Discrimination	0,001 %
Measuring speed	10 samples/sec.
Compens. of thermocouple comparing ends	internal/external

Output analog signal	
Current	0 (4) to 20 mA
Voltage	0 to $\pm 10$ V
Basic error	0,1 %
Discrimination	0,005 %

Output two-value signals

Number of channels 4  
 Type of contacts switch 230 V / 8 A

Serial communication interface

Type RS 232 or RS 485 with galvanically separation  
 Max. speed 28800 Bd

Transmission components

Amplification 0,001 to 9999  
 Integration time constant 0,001 to 9999 s  
 Derivation time constant 0,001 to 9999 s  
 Sampling period 0,15 to 650 s

The possibility of auto-switching of 2 sets transfer constants

The possibility of 2 types adaptable controls

Controller Structure - programming by user for all types of control as a cascade, ratio, time-pattern control etc.

Others functional block

Three non-linear converters, two mathematical units, logic block, four signaling limits.

Three independent generators of time independent signal, approximation of progress by a broken line or step function, step progress as a logical signal

Max.length of one section ..... 4092 minut

Max. number of time section .....22

Time mode of generators-day or week or relative

Control of the program run can be associated with an event

Feeding

Voltage, frequency 230 V +10 %, -15 %, 48 to 62 Hz

