

evaluation devices

universal-controller UREG 200

features

- microprocessor PID fuzzy control universal controller for many application areas
- simple handling about 3 keys and/or pc-software
- 2 analog outputs, thereof 1 universal input for resistance thermometer, thermocouple, power 0/4-20mA and voltage 0-10VDC, 2. analog inputs with power 0/4-20mA and voltage 0-10VDC
- universal adjustment of controller as 2 point controller heating, 2 point-controller cooling, 3 point controller heating/cooling, constant controller
- controller outputs as relay and bistable voltage output for solid-state relay
- optional constant controller with output 0/4-20mA (adäquat for control valve)
- optional additional analog output with many functions like actual value output programmable
- optional with sensor supply unit for feeding off 2-wire transmitter
- optional with different interfaces RS 232 or RS 485
- self improvement
- 2 alarm contacts with programmable switching function
- dimensions 48 x 96 mm installation depth 65 mm



UREG 200-1-B-D-3-1

order-code UREG 200...

order example: UREG 200-1-B-D-3-1

voltage supply

- 1 90-264VAC, 47-63 Hz
- 2 11-26 VAC/DC

adjusting output out1

- A switching output relay
- B analog output 0/4-20mA as constant output
- C switching output to trigger the solid state relay

adjusting output out2 or sensor supply for 2-wire transmitter

- A switching output relay
- B analog output 0/4-20mA as constant output
- C switching output to trigger the solid state relay
- D sensor supply for 2-wire transmitter 20VDC, 25mA

option 1: interfaces, analog output with different functions

- 0 without interface
- 1 with interface RS 232 for communication
- 2 with interface RS 485 for communication
- 3 with analog output 0/4-20mA, different. functions programmable like actual value output, sensor margin output a.s.o..

option 2: higher protection class of the box

- 0 protection type IP50 at the front (standard)
- 1 protection type IP65 at the front

auxiliary equipment like software, interface adapter, sealing kit upgrade a.s.o.

UREG-config easy parameterizing software for UREG-controller (except UREG100)
 UREG-CON interface adapter UREG-controller on PC RS232

UREG-prog-kit complete prog.-kit, made up software, interface adapter and USB-adapter

UREG50-IP65 sealing kit for upgrade the protection type IP50 to IP65 at the front

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technical specifications

voltage supply

90-264VAC, 47-63 Hz, 15VA, 7W max.
11-26 VAC/DC, 15VA, 7W max.

analog input 1

thermocouple type J -120°C...+1000°C
 thermocouple type K -200°C...+1370°C
 thermocouple type T -250°C...+400°C
 thermocouple type E -100°C...+900°C
 thermocouple type B 0°C...+1820°C
 thermocouple type R 0°C...+1767,80°C
 thermocouple type N -250°C...+1300°C
 thermocouple type L -200°C...+900°C
 PT100 2/3-wire DIN -210°C...+700°C
 power 0/4...20mA, +/-0,05%
 voltage 0...10VDC, +/-0,05%
 definition: 18bit
 sample rate: 5/s

analog input 2

power 0/4...20mA, +/-0,05%
 voltage 0...10VDC, +/-0,05%
 definition: 18bit
 sample rate: 5/s

control input binary

logic low 0VDC
 logic high 10VDC
 different functions programmable

alarm output 1

1 changer max 2A/240VAC
 different functions programmable

alarm output 2

1 closer max 2A/240VAC
 different functions programmable

adjusting output 1/adjusting output 2

at function relay: normally open contact max. 2A 240VAC
 at function contact: 0/4-20mA max. 500Ohm
 (over 500Ohm extern resistance 0/2-10VDC)
 definition: 15bit
 at function solid state 14V/40mA

sensor supply unit for 2-wire transmitter

20VDC, 25mA, isolation voltage: 500VAC

communication interface

RS232 (1 unit), RS485 (up to 247 units)
 protokoll: modbus RTU
 interval: 1...247
 baud-rate: 0,3...38,4 Kbits/s
 data bits: 7 oder 8
 parity bit: none, even or odd
 stop bit: 1 or 2
 data cage: 50 bytes

analog output

functions: actual value1, actual value2, act.vaue.1-act.value.2
 act.value2-act.value1, act.value-act.value a.s.o.
 output 0/4-20mA,
 (over 500Ohm extern resistance 0/2-10VDC)
 definition: 15 bit
 accuracy: +/-0,05%
 working resistance: max 500 Ohm
 isolation voltage: 1000VAC

front operation and display

actual value (PROCESS): LED-display, height 10mm colour red
 reference value (SET): LED-display height 8mm, colour green
 LEDs for out1, out2, alarm1, alarm2, °C, °F
 operation at the front about 3 keys

interface for the programming

on the side for interface adapter UREG-Con
 parameterization with software UREG-Konfig

dimensions etc..

box 48 x 96mm
 installation depth: 65mm
 cut-out control panel : 45 x 92mm
 weicht: 220g
 protection type: IP50 at the front, optional IP65, IP20 at the back
 protection against contact of the clamps about plastics cover,
 detachable
 electronic to extract of the box forwards

connection chart

