

evaluation devices

universal-controller UREG 50

features

- microprocessor controller for many application areas
- simple handling over 4 keys and/or pc software
- sensor input for resistance thermometer, thermocouples, or power 0/4-20mA, or voltage 0-10VDC
- controller outputs as relay and bistabile voltage output for solid-state relay
- optional constant controller with output 0/4-20mA (adäquat for control valve)
- optional additional analog output as an actual value output
- optional with sensor supply unit for feeding off 2-wire transmitter
- optional with different interfaces RS 232 or RS 485
- self improvement
- 1 alarm contact with programmable switching function
- dimensions 48 x 48 mm installation depth 105 mm



UREG 50-1-A-B-D-3-1

order-code UREG 50...

order example: UREG 50-1-A-B-D-3-1

voltage supply

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

sensor input

- A PT100 and thermocouples
- B analog input 0/4-20mA
- C analog input 0-10VDC

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 14V/40mA

adjusting output out2 or sensor supply for 2-wire transmitter

- A switching output relays
- B analog output 0/4-20mA as constant output
- C switching output to trigger the solid state relay 14V/40mA
- D sensor supply for 2-wire transmitter 20VDC, 25mA

option 1: interfaces, analog output, actual value

- 0 without interface
- 1 with interface RS 232 for communication
- 2 with interface RS 485 for communication
- 3 with analog output 0/4-20mA as actual value output

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 upgrate 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

universal-controller UREG 50

technical specifications

voltage supply

90-264VAC, 47-63 Hz, 15VA, 5W 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 S 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

alarm output 1

1 changer 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 or 8
parity bit: none, even or odd
stop bit: 1 or 2
data cage: 50 bytes

analog output optional

function: actual value
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 4 keys

interface for the programming

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

dimensions etc..

box 48 x4 8mm
installation depth: 105mm
cut-out control panel : 45 x 45mm
weight: 150g
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

