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Universal PID-Controller for DIN-Rail URDR

- PID-Controller for mounting on DIN-Rail
- Universal AC/DC power supply
- Universal input für process signals, thermocouple, RTD
- 2-line LED display
- Easy programming via software or push buttons
- Analogue output or SSR output
- 2 alarm outputs

URDR

This compact universal controller for DIN-Rail mounting is an all-rounder. With the universal input for the most common temperature sensors and process signals combined with the universal power supply and the newest programming and control technologies, this PID-controller is the best solution for sophisticated applications. This controller is usable as a classic PIC controller, as well as a signal conditioner (18 different input signals and a galvanic isolated analogue output)
Beside the excellent price/performance-ratio, this controller convinces with his robust housing and brilliant display.

Display: 2-line LED-Display
Upper line: Process value, 4-digit, green with 10.2 mm digits
Lower line: Setpoint, 4-digit, red with 7,6 mm digits

Indicators: Eight red indicators for relais outputs, alarm status, serial communication and tuning..

C1, C2	ON, when output is active. C1 as relay/SSR/mA/voltoutput or C1 (opening) and C2 (closing) for electronic valves
A1, A2,A3	ON, when alarm is active
MAN	ON, when the function “manual” is switched on
TUN	ON, when controller is in “autotune” mode
REM	ON when serial communication is active

Buttons: 3 push buttons for programming and setting up the setpoints.

Input ranges: Configuration of the input signal via software or push buttons.
Thermocouples type K, S, R, J; internal cold junction (from 0 °C to 50 °C; accurracy of cold junction 0,1 °C/°C)
RTD: Pt100, Pt500, Pt1000, Ni100, PTC1K, NTC10K
Linear inputs: 0 V to 10 V, 0/4 mA to 20 mA, 0 mV to 40 mV
Potentiometer: 1 kOhm to 6/160 kOhm

Accurracy: Tolerance at 25 °C +/-0.2 % ± 1 digit for thermocouple input, RTD input and analogue input signal.

Measuring rate: Programmable up to 4,1 msec. (242 Hz).

User input: (switchable via contact input signal).
Alternative usable functions: Hold/freeze values, selecting setpoint 1 to 4, activating tuning function.

Thermal amperometer input: max. 50 mA with 80 msek. Cycle.

Excitation: +12 VDC @ 30 mA

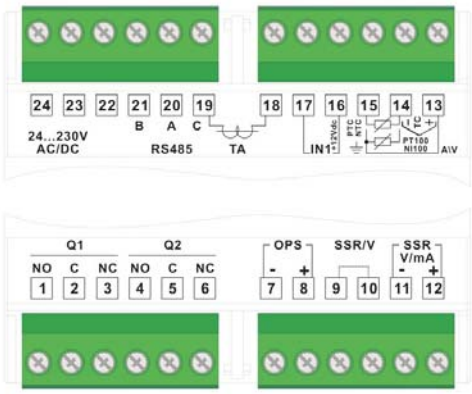
Relay output: 1 change over relay with 5 A @ 250 VAC. Programmable as controller output for heating/cooling and/or alarm

Analogue/SSR-output: Selectable via jumper. Programmable analogue output 0 VDC to 10 VDC or 0/4 mA to 20 mA with a resolution of 4.000 steps. Programmable as controller output or retransmission process/setpoint value. SSR-output 12 VDC @ max. 30 mA.

Communication port: RS485 with Modbus RTU as slave.

Supply:
24VAC/DC to 230 VAC/DC +/-15 %, 50/60Hz; 5,5 VA

Wiring plan:



Protection class: IP20 from the front and back plane.

Housing: Blue and robust plastic case. Plastic front panel with silicone pad..

Dimensions: W 72 mm x H 908 mm x D 64 mm.

Connection: Via removable terminal block. .

Ambient conditions: Operating temperature: 0 °C to +45 °C; relative humidity 35 % to 95 %. rF, non condensing..

Weight: 165 gramms

Scope of delivery: Controller, manual..

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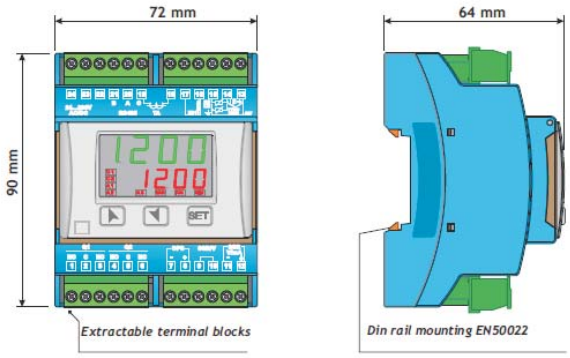
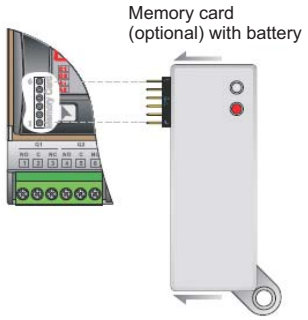
Universal PID-Controller UR4848





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Programming: The controller will be programmed via push buttons or Windows™-software. The memory card is battery powered. With this technology you can programm the controller without powering it up (up to 1000 programm cycles with one battery).

Functionality:
Control algorithms: ON - OFF with hysteresis, P., P.I., P.I.D., P.D. time proportioned, dead band. Additionally open / close logic for motorized valves

Tuning:
Manual or automatic tuning selectable.

Alarm modes: Absolute / Threshold, band, High / Low deviation. Alarm with optional manual reset .
Standby and hysteresis programmable

Second controller output (cooling): Programmable instead of alarm output with P., P.I., P.I.D., P.D. time proportioned with dead band.

Data protection: Lock of command / alarm setpoint - Access to parameters by password.

Order codes

Type	Order-No.
Universal controller, DIN Rail, 24 to 230VAC/VDC	URDR0001
Accessories Programming module with USB cable Software download under: http://www.wachendorff.de/wp/dpc_dow_epg_sof.html	 SFUR0KIT

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