

RJ402 - Differential temp. switch

RJ402 (on DIN rail) is differential temperature switch (e.g for switching-on of circulating pump by preset difference of temperatures and afterward switching-off the pump by falling of difference for preset hysteresis).

Temperature difference for switch-on (TCT1-TCT2) can be set through wheel **Diff T** (2°C to 50°C) and temperature decrease for switch-off can be set through **Hys** (2°C to 35°C) see Fig. 1.

After connection of temperature sensors CT1 and CT2 to clamps and mounting of second ends to places where we need to measure the temperature, we can connect the RJ402 to power supply.

After connection to power supply light up green LED (PWR).

Example: On wheel *Diff T*(Difference) is set 20°C and on wheel *Hys* 2°C. If the difference of temperatures measured on sensors CT1 and CT2 will be more than 20°C then relay RE1 switch-on, which can e.g. switch the pump. After the the pump is switch-on the hot water start to flow. As soon as the temper drops for 2°C (difference will be smaller than 18°C),then RE1 swith off and the pump stops.

Technical parameters	
Power supply	230 V AC/50Hz
consumption	< 0,5 W
Working temp.	0 to 50°C
Regulation range	2 to 50°C
Hysteresis	2 to 35°C
Output	relay
Switching current	max. 5A/AC1
Contact type	switch over

Function of switcher:

Position ON - Relay RE1 is switched on
(regardless of temperature)

Position OFF - Relay RE1 is switched off
(regardless of temperature)

Position AUTO - Relay RE1 switch-on by difference of temperatures, which is preset on wheel Diff T (Diference T)

LED indication:

PWR:  (lit) - under power supply

RE1:  (lit) - RE1 is switched on

RE1:  (flashing) - external sensor is disconnected or allowed temperature range was exceeded.

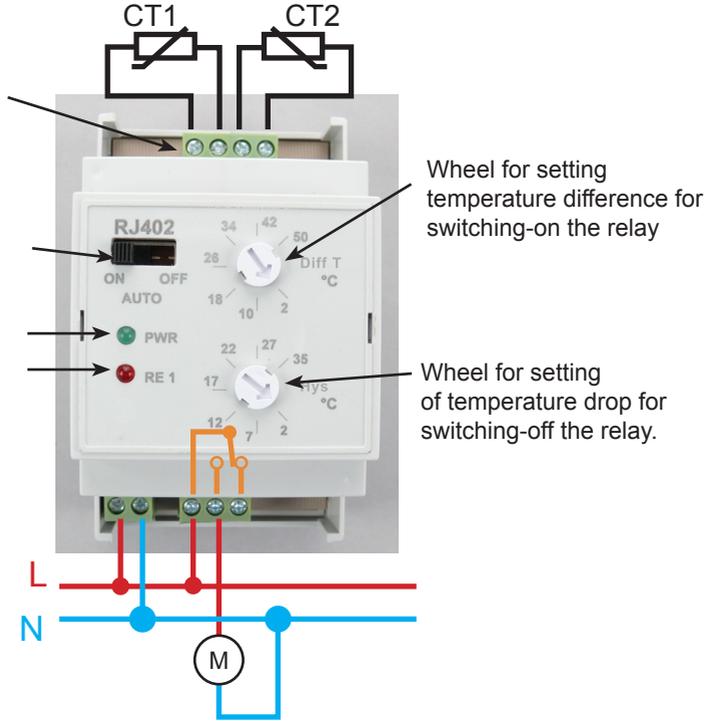
Diagram for switching of pumps:

Fig. 1

Clamp for connection of external sensors

Function switcher positions: ON, AUTO, OFF

Power supply indication
Switching relay indication



Application example:

Automatic charging of hot water tank

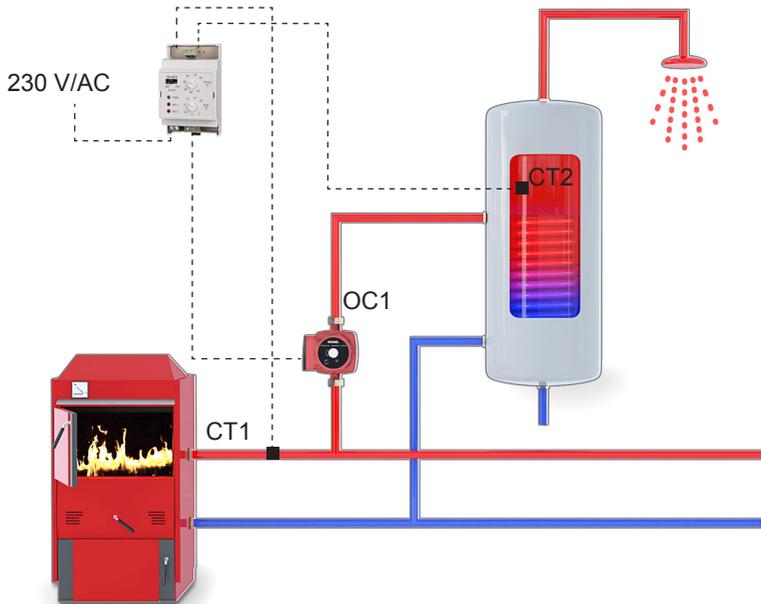


Diagram for switching of pumps:

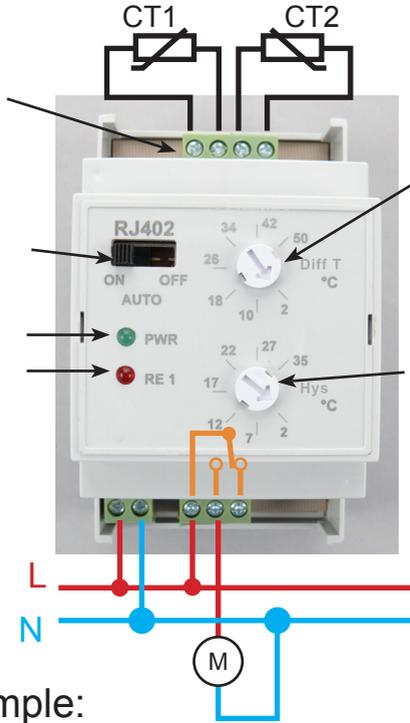
Fig. 2

Clamp for connection of external sensors

Function switcher positions: ON, AUTO, OFF

Power supply indication

Switing relay indication

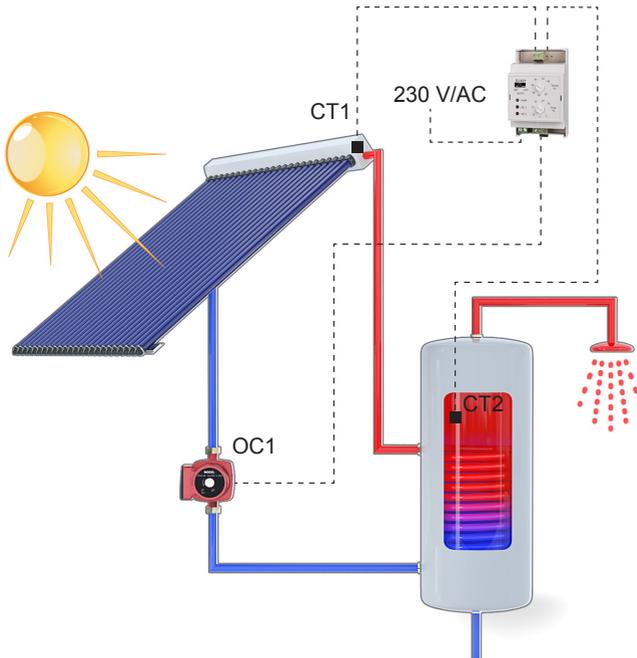


Wheel for setting temperature difference for switching-on the relay

Wheel for setting of temperature drop for switching-off the relay.

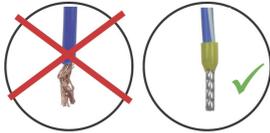
Application example:

Controlling of pump by solar system



Info: By any failure on external sensor (short circuit or disconnected) and device work in AUTO mode, then come to continuous switch on of the relay RE1.

The device can only be installed by a person with adequate qualification!



CERTIFICATE OF GUARANTEE (guarantee period for the product amounts to 2 years)	
Product No.:	date of sale:
examined by:	stamp of shop:

external temperature sensors are included
Type: CT01-10k

In case of guarantee or post-guarantee service is needed, send the receiver to the distributor or manufacturer's address.



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