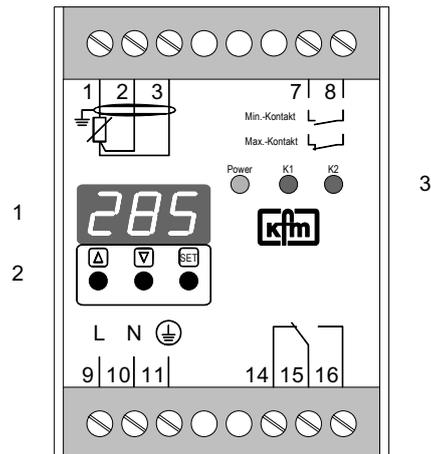


- 1 Digital display of setpoint value
- 2 Pushbuttons for adjusting the setpoint values
- 3 LEDs for operating and error indication



General:

Type 842 is a temperature switch with digital display of setpoint value and a configurable contact-function.

The Pt100 measurement input is of the 3-conductor type, so that compensation is automatically provided for cable resistances and ex-barrier units, as an alternative depending on the type there is a standard signal measuring input 0(4)-20mA and 0(2)-10V available.

Depending on the wiring of the binary input the device operates as a min. or max. contact.

Types:

Basic type, measuring input PT100 (0 –400°C)
 Measuring input standard signal 0(4)..20mA, 0(2)..10V

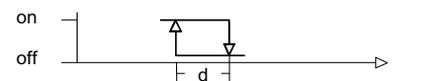
type suffix
 without
 ..e

Function:

After the mains voltage has been switched on, the operating indicator and also LED K1, depending on the actual value, and the setpoint value lights up. Depending on the wiring of the binary input the characteristic of the relay can be inverse or direct, in every case the relay is released if the determined setpoint value has been reached. The relay is switched on again upon exceeding the hysteresis each.

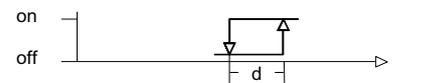
Min. contact: (Terminals 7 and 8 not connected)

Relay K1 switches on if the actual value is lower than the setpoint (minus the hysteresis)



Max. contact: (Terminals 7 and 8 connected)

Relays K1 switches on if the actual value is higher than the setpoint (plus the hysteresis)



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Actual value display:

The actual value is displayed as long as the the arrow up key is pressed.

Adjusting the setpoint value:

The mode in which the setpoint value is adjusted is activated by pressing the "SET" button, the displayed value flashes. The new setpoint value can now be adjusted using the arrow keys. The setting mode is deactivated by pressing the "SET" button again. The displayed value ceases to flash, and the adjusted value is adopted as the new set value.

Fault:

The relay is switched off if there is a fault at the measurement input. Then the display shows "---" in the actual value display mode.

Adjusting the parameters:

The mode in which the first parameter switching hysteresis "d" can be configured is entered by holding the "SET" button for 5 seconds. The display shows the short name "d" in the first position and the currently adjusted value flashing in the second and third position. The desired new value can now be adjusted using the arrow keys. By pressing the "SET" button again the adjusted value is adopted as the new switching hysteresis and, depending on the type, the mode in which the next parameter can be configured is entered. At the last parameter the device reverts to its normal operation status display after pressing the "SET" button again.

Settings in detail:

(existence depends on version and type):

Polling: press and hold the SET-button for >5 sec, release after the display reacts.

		Factory setting:	Notes:
d	Hysteresis (switching difference on/off)	8 (Type: ..e: 0,5)	___
n	Number of decimal places of the display "-1 / 0 / 1" * (If "-1" is configured each parameter L / H is automatically multiplied by 10 for the actual value display!)	1	___
L / H	start / end of display range (dep. on the number of dec. places) *	0.0 / 8.0	___
A	Input type: "i0: 0-20mA / i4: 4- 20mA / u0: 0-10V / u2: 2...10V" * (note different terminals for I/U!) * only with input voltage / current	4...20 mA	___

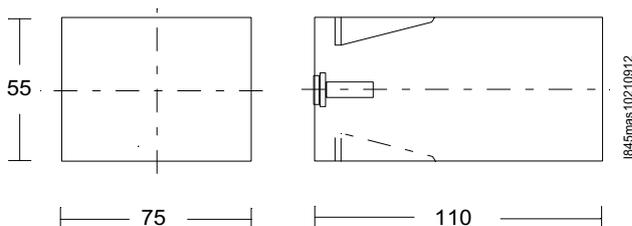
return to operating mode:

briefly press the SET-button

Characteristic values:

Analogue input:	1 x Pt 100 DIN, three-wire techniques, standard signal alternatively
Measuring range	0 ... 400 °C resp. adjustable
Adjusting the setpoint values:	Using recessed push-buttons
Output:	1 relay, max 250 V 2 A
Switching hysteresis:	adjustable, 1 .. 99 K
Housing:	For fastening to 35 mm mounting rail, or for screw fastening
Mains connection:	230VAC + 10 % / - 15 %, 48...62Hz
alternatively:	115 VAC, 48 VAC, 24 VAC
Power consumption:	Approx. 4 VA
Fusing:	Secondary side, T 250 mA
Type of protection acc. EN 60529:	IP 20
Permissible ambient temperature:	0...60°C
Nominal temperature:	20°C
Storage and transport temperature:	-20 ... + 80 °C
Climatic resistance:	Relative humidity <= 75 % annual average without condensation
Electromagnetic compatibility:	In accordance with EN 61326, industrial requirements
Installation orientation:	optional

Installation dimensions:



Connection diagram:

