

## Series HT 41 / 42

### Compact controller / Limiter-Combination

The self-programmable temperature controller HT 41 / 42 is a universal controller due to its free configurability, its optional serial interface and the compact design for machine building, plant and apparatus construction.

Particular attention was given to the limiter function during the design of this device, with a permanent shutdown for unintentional operation according to DIN/VDE 0721 and on the high non-contact switch capacity of 3600 Watts.



<b>Power supply:</b>	230 Volt AC / 50 Hz or 24 Volt DC
<b>Noise immunity:</b>	EN 50 082-2
<b>Emitted interference:</b>	EN 50 081-1
<b>Sensor types:</b>	Fe-CuNi (J), NiCr-Ni (K) with reference point compensation and sensor breakage safeguard, sensor polarity reversal control PT 100, 2 conductors DIN/IEC
<b>Fault limit:</b>	0.1% - 0.2% of the range
<b>Controller outputs:</b>	electrical switch (control) 16 A, mechanical relay 16 A (limit/signal), Alarm output relay 6 A, limit compensation Y3, $\pm 10$ K of rated value
<b>Controller response:</b>	P-PID
<b>Limiter function:</b>	Signal over 2. PT 100
<b>Cutout temperature limiter:</b>	50°C - 500°C adjustable, actuates via mechanical relay
<b>Display current / rated value:</b>	four digit LED-display (13 mm)
<b>Measuring range:</b>	-199 to +999 digits
<b>Deviation display:</b>	7 LED $\pm 12^\circ\text{C}$ flashes
<b>Operation:</b>	Film keypad, 4 pushbuttons
<b>Housing:</b>	Makrolon
<b>Housing dimensions:</b>	148 x 90 mm
<b>Assembly area:</b>	160 x 100 mm
<b>Fastening:</b>	4 bores for bolts M4
<b>Protection grade:</b>	IP 65 (EN 60529)
<b>Protection class:</b>	I
<b>Cable inputs / outputs:</b>	<b>HT 41</b> 8+PE-pin socket Mains connection cable 1.2 m
	<b>HT 42</b> KV-Glands without mains cable

#### Setting ex works: Sensor type: Pt 100

	Control range
<b>HT 41</b>	0 – 200 °C
<b>HT 42</b>	0 – 200 °C

The customer can reprogram these parameters, or we will supply the setting as required (additional charge).