hillesheim®

Temperature-Controller HT61/62

Temperature-Controller HT63

Ex-Controller HT-D3Ex

MADE IN GERMANY

Compact Controller

HT 63 series

Electronic Controller

The temperature controller HT 63 is a further development of the HT40 series. Due to its compact design, simple and clear handling, the HT63 is a universal controller in machine, plant and apparatus engineering. The text-controlled menu allows a simple and intuitive operation of the controller. The most important parameters are shown on the LCD display. The contactless switching capacity is 10A. All heated hoses in our standard series have a 6-pin connector that fits exactly on this controller

Voltage supply	230V AC 50/60Hz (optional 115V AC)
Switching power	2300 W (10 A)
Sensor types	PT100, PT1000, Fe-CuNi (J), NiCr-Ni (K), Ni120, Sensor with 3-wire system
Tolerance	1% +/- 1 Digit
Controller outputs	elect. switch (Triac) 10A
Controller responce	PID-Controller
Operating modes	automatical, manual, input delay, program (optional)
Inputs and Outputs	Alarm output relay 24V/1A Analog output 0-10 V for temperature actual value display Analog input 0-20 mA for external setpoint input (optional)
Functions	Alarm delay Alarm upper and alarm lower limit
Option Package	Program function External setpoint input
Display	2-line LCD-Display
Operation	Membrane keyboard 5 pushbuttons
Housing dimensions	160 x 80 x 55mm (LxBxH)
Mounting plate dimensions	160 x 100 mm
Fastening	4 bores for M4 screws
Protection type	IP65 (EN 60529) protection class I
Load outputs	Mains cable, 6+PE pole round plug, KV- screw connection for signal output
Mains Plug	Schuko, 1,2 m lang

Setting ex works					
Control range	PT100	PT1000	FeCuNi	NiCr-Ni	Ni120
0 – 100 °C	HT 63 - 10P	HT 63 - 10M	HT 63 - 10F	HT 63 - 10N	HT 63 - 10C
0 – 200 °C	HT 63 - 20P	HT 63 - 20M	HT 63 - 20F	HT 63 - 20N	HT 63 - 20C
0 – 250 °C	HT 63 - 25P	HT 63 - 25M	HT 63 - 25F	HT 63 - 25N	HT 63 - 25C
0 – 500 °C	HT 63 - 50P	HT 63 - 50M	HT 63 - 50F	HT 63 - 50N	
0 – 800 °C			HT 63 - 80F	HT 63 - 80N	

Series HT 61 / 62

Controller / limiter combination

The temperature controllers HT 61/62 are a further development of the HT40 series. Due to their compact design, simple and clear handling, the temperature controllers HT 61/62 are universal controllers in machine, plant and apparatus engineering. The text-controlled menu allows a simple and intuitive operation of the controller The most important parameters are shown on the LCD display.

In addition, the HT61 / 62 have a limiter function with a permanent shutdown. The contactless switching capacity is 16A.

HT62 with screw connections

Voltage supply	230V AC 50/60Hz (Optional 115V AC)
Switching power	3680 W (16 A)
Sensor types	PT100, PT1000, Fe-CuNi (J), NiCr-Ni (K), Ni120, Sensor with 3-wire system
Tolerance	1% +/- 1 Digit
Controller outputs	elect. switch (Triac) 10A
Controller responce	PID-Controller
Operating modes	automatical, manual, input delay, program (optional)
Inputs and Outputs	Alarm output relay 24V/1A Analog output 0-10 V for temperature actual value display Analog input 0-20 mA for external setpoint input (optional)
Functions	Alarm delay Alarm upper and alarm lower limit limiter function with permanent shutdown remote limiter reset
Option Package	Program function External setpoint input
Display	2-line LCD-Display
Operation	Membrane keyboard 5 pushbuttons
Housing dimensions	160 x 80 x 55mm (LxBxH)
Mounting plate dimensions	160 x 100 mm
Fastening	4 bores for M4 screws
Protection type	IP65 (EN 60529) protection class I
HT 61 load outputs	1,2m mains cable with Schuko, 8+PE pole plug (HANQ8), KV- screw connection for signal output
HT 62 load outputs	KV- screw connection for signal output , main cable, consumer, without main cable

HT61 with 8+PE pole socket

Setting ex works Sensor type PT100	
Typ	Control range
HT 61	0 – 200 °C
HT 62	0 – 200 °C

These parameters can be reprogrammed by the customer or pre-programmed according to customer requirements.

Typ HT-D3Ex ⟨Ex⟩

Digital Ex-controller-limiter combination for use outside the Ex-zone

The electronic Ex-controller HT-D3Ex is a combination of controller and ATEX approved limiter. The combi unit is already pre-wired and can therefore be put into operation quickly and easily. The Ex-controller has a switching capacity of 16A and is mounted outside the Ex-zone. The Ex-controller enables the safe operation of Ex-heaters and Ex-Hoses of all kinds.

Ambient temperature	0 - 40 °C
Voltage supply	100-240V AC 50-60 Hz
Switching power	16A
Controller response	Twopoint-controller (preprogrammed), PID
Tolerance	+/-1°C
Sensor types	2x Ex-PT100
Load output	relay 16A closer
Alarm output	relay 8A opener
In/Outputs	KV- screw connection for signal output , main cable, consumer
Terminal cross section	2,5mm²
Housing dimensions	plastic 250x200x123mm
Protection type	IP65 (EN 60529) protection class II
Interface	RS485 Modbus RTU