

- Heat regulators with LED display with 3 digits, 7 segments and decimal point with relay intervention signalling LED
- Display range: $-99 \div +999\text{ }^{\circ}\text{C}$ (depending on the probe connected)
- Display resolution: $0.1\text{ }^{\circ}\text{C}$ ($-9.9 \div +99.9\text{ }^{\circ}\text{C}$) and $1\text{ }^{\circ}\text{C}$ ($< -9.9\text{ }^{\circ}\text{C}$ and $> +99.9\text{ }^{\circ}\text{C}$)
- Precision: $\pm 0.5\%$ of the full scale value ± 1 digit
- Possibility to select the type of probe (HT NTC excluded)
- Password to protect the setting
- Parameter setting with digital mode:
 - Set-point
 - Differential
 - Neutral zone
 - Output triggering timing
 - Digital input delay time and function
 - Alarm delay time
 - Probe gauging OFFSET
 - Resolution displayed
 - Temperature unit of measurement
 - Measurement display filter (updating speed)
 - Probe input type

Operating modes (regulation):

- Heating or cooling ON/OFF (with or without Neutral Zone)
- Direct action, Reverse and Neutral Zone PWM
- ALARM
- Refrigeration mode
- Special mode
- Output: 1 or 2 relays with change-over contact 8 A / 250 V AC1
- Digital input: 1 (excluding versions HT NiPt-P7A, HT NTC-P7A, HT JK-P7A) with configurable function: external alarm, ON/OFF regulation, probe display selection, Set-point switching, Direct/Reverse switching
- Visual and acoustic alarm signalling for: external alarm (from digital input), probe alarm (fault), minimum or maximum alarm
- Infrared receiver with RC-5 protocol (excluding versions HT NTC-1DA, HT NTC-2DA) for remote control unit (accessory available separately for remote programming)

TECHNICAL INFORMATION

GENERAL CHARACTERISTICS

		HT NiPt - P7A	HT NiPt - P3A	HT NiPt - ..P3D	HT NiPt - ..DA
		HT NTC - P7A	HT NTC - P3A	HT NTC - P3D	HT NTC - ..DA
Model		HT JK - P7A	HT JK - P3A	HT JK - P3D	HT NTC - ..DA
Dimensions		Rear-panel 72x72 mm	Rear-panel 33x75 mm	Rear-panel 33x75 mm	4 DIN Modular
Power supply voltage in AC	A 50/60 Hz V	24 / 230	100 ÷ 230	12 ÷ 24	24 / 230
Power supply voltage in DC	V	-	140 ÷ 300	12 ÷ 24	-
Power supply voltage tolerance	%	± 10	± 15	± 10	± 10
Power consumption	VA	4,5	3	3	4.5
Relay outputs (change-over contact)					
capacity	at 250 V AC1 A	8	8	8	8
maximum breakaway starting current	A	10	10	10	10
maximum switchable power in AC	VA	2000	2000	2000	2000
maximum switchable resistive load	at 230 V W	1760	1760	1760	1760
single-phase motor capacity	HP	1/4	1/4	1/4	1/4
maximum switchable voltage	V	250	250	250	250
Precision	at ambient temperature = 23 °C	$\pm 0.5\%$ of the full scale value ± 1 digit	$\pm 0.5\%$ of the full scale value ± 1 digit	$\pm 0.5\%$ of the full scale value ± 1 digit	$\pm 0.5\%$ of the full scale value ± 1 digit
Display range		$-99 + 999\text{ }^{\circ}\text{C}^*$	$-99 + 999\text{ }^{\circ}\text{C}^*$	$-99 + 999\text{ }^{\circ}\text{C}^*$	$-99 + 999\text{ }^{\circ}\text{C}^*$
Display resolution		$0.1\text{ }^{\circ}\text{C}$ ($-9.9 \div +99.9\text{ }^{\circ}\text{C}$) $1\text{ }^{\circ}\text{C}$ ($< -9.9\text{ }^{\circ}\text{C}$ and $> +99.9\text{ }^{\circ}\text{C}$)	$0.1\text{ }^{\circ}\text{C}$ ($-9.9 \div +99.9\text{ }^{\circ}\text{C}$) $1\text{ }^{\circ}\text{C}$ ($< -9.9\text{ }^{\circ}\text{C}$ and $> +99.9\text{ }^{\circ}\text{C}$)	$0.1\text{ }^{\circ}\text{C}$ ($-9.9 \div +99.9\text{ }^{\circ}\text{C}$) $1\text{ }^{\circ}\text{C}$ ($< -9.9\text{ }^{\circ}\text{C}$ and $> +99.9\text{ }^{\circ}\text{C}$)	$0.1\text{ }^{\circ}\text{C}$ ($-9.9 \div +99.9\text{ }^{\circ}\text{C}$) $1\text{ }^{\circ}\text{C}$ ($< -9.9\text{ }^{\circ}\text{C}$ and $> +99.9\text{ }^{\circ}\text{C}$)

* Depending on the selected probe

HT NiPt



HT NTC



HT JK



HEAT REGULATION

TECHNICAL INFORMATION

GENERAL CHARACTERISTICS

		HT NiPt - P7A HT NTC - P7A HT JK - P7A	HT NiPt - P3A HT NTC - P3A HT JK - P3A	HT NiPt - ...P3D HT NTC - P3D HT JK - P3D	HT NiPt - ...DA HT NTC - ...DA HT NTC - ...DA
Model					
Sampling time	s	0.5	0.5	0.5	0.5
Front protection degree		IP54	IP54	IP54	IP40
Terminal protection degree		IP20	IP20	IP20	IP20
Display		3 digits LED 7 segments and dec. point	3 digits LED 7 segments and dec. point	3 digits LED 7 segments and dec. point	3 digits LED 7 segments and dec. point
Probe alarm signalling buzzer		■	■	■	■
Infrared receiver for remote control unit		■	■	■	■ (1)
Digital input			■	■	■
Operating temperature	°C	0 ÷ +50	0 ÷ +50	0 ÷ +50	0 ÷ +50
Operating humidity	RH	< 80%	< 80%	< 80%	< 80%
Storage temperature	°C	-10 ÷ +70	-10 ÷ +70	-10 ÷ +70	-10 ÷ +70

(1) excluding HT NTC-...DA