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# TEMPERATURE CONTROL

## HTK CAPILLARY TUBE REGULATOR (Protection IP 65)

This capillary tube regulator is suitable for the simple temperature monitoring or temperature regulation, for example for frost protection or for the heating of rainwater outfalls.



### TECHNICAL DATA

|                       |                            |
|-----------------------|----------------------------|
| Switching power 230V  | 16 A (3600W)               |
| Accuracy              | 5%                         |
| Safety class          | Class I                    |
| Protection class      | IP 65 (DIN 40 050)         |
| Diameter of terminals | Cables 2,5 mm <sup>2</sup> |
| Dimensions            | 120 x 160 x 75 mm          |
| Case material         | ABS / Polycarbonate        |

### MODELS AVAILABLE

| Model      | Reference | Range       |
|------------|-----------|-------------|
| HTK 0/40   | 06 12 01  | 0 / 40 °C   |
| HTK 0/85   | 06 12 02  | 0 / 85 °C   |
| HTK 50/250 | 06 12 03  | 50 / 250 °C |

## ARW ANTIFREEZE REGULATOR FOR WALL MOUNTING (Protection IP 54)

This regulator works after the principle of liquid expansion and is therefore especially suitable for self-limiting heating tapes.



### TECHNICAL DATA

|                       |                            |
|-----------------------|----------------------------|
| Range                 | 0 / 40 °C                  |
| Nominal voltage       | 230V                       |
| Switching power       | 16 A / 250V                |
| Ambient temperature   | -20 a 50 °C                |
| Protection class      | IP 54 (DIN 40 050)         |
| Diameter of terminals | Cables 2,5 mm <sup>2</sup> |
| Dimensions            | 145 x 112 x 68 mm          |
| Weight                | 350 g (aprox.)             |

### MODELS AVAILABLE

| Model                                | Reference | Range     |
|--------------------------------------|-----------|-----------|
| ARW                                  | 06 12 20  | 0 / 40 °C |
| protective grating for the capillary | 06 12 21  |           |

## HT 20 TEMPERATURE REGULATOR (Protection IP 50)

The HT 20 temperature regulator with plastic case has a seven-pole plug socket, where the sensor lines and power cables can be centrally connected to the heating. It is particularly suitable if regulator and connected heating have to be separated quite often.

A two-pole main switch and a two-pole restraint solid state relay increase the technical safety of the device..



### TECHNICAL DATA

|                     |                     |
|---------------------|---------------------|
| Range               | Depending of model  |
| Nominal voltage     | 230V                |
| Switching power     | 2300W a 230V        |
| Safety class        | Class II            |
| Protection class    | IP 50 (DIN 40 050)  |
| Ambient temperature | 0 a 40 °C           |
| Dimensions          | 55 x 80 x 160 mm    |
| Case material       | ABS / Polycarbonate |
| Accuracy            | 2,5 %               |
| Power control       | By relay            |

### MODELS AVAILABLE

| Model      | Output | Reference | Range       |
|------------|--------|-----------|-------------|
| HT 20 - 08 | Pt 100 | 06 20 08  | 0 / 100 °C  |
| HT 20 - 03 | TCJ    | 06 20 03  | 0 / 500 °C  |
| HT 20 - 07 | TCK    | 06 20 07  | 0 / 1000 °C |

Consult for others ranges

## HT 16 UNIVERSAL TEMPERATURE REGULATOR (16 A) ,ADAPTABLE HEATER POWER (Protection IP 54)

The HT 16 regulator has a dust and humidity proof IP 54 case and can be put into operation quite easily and quickly. The set point is adjusted with digital buttons, LED's show the actual temperature. The high-quality electronic guarantees a reliable maintenance of the set point.



### TECHNICAL DATA

|                        |                              |
|------------------------|------------------------------|
| Range                  | Depending of model           |
| Nominal voltage        | 230V                         |
| Switching power        | 16 A / 250V                  |
| Adaptable heater power | 20 a 3600W                   |
| Safety class           | Class I                      |
| Protection class       | IP 54 (DIN 40 050)           |
| Ambient temperature    | 0 a 40 °C                    |
| Dimensions             | 160 x 120 x 90 mm            |
| Weight                 | 1,1 kg (aprox.)              |
| Accuracy               | Pt 100 0,5 %<br>Termopar 1 % |
| Power reduction        | 0 a 100 %                    |

### MODELS AVAILABLE

| Model      | Output | Reference | Range      |
|------------|--------|-----------|------------|
| HT 16 - 14 | Pt 100 | 06 16 14  | 0 / 99 °C  |
| HT 16 - 03 | TCJ    | 06 16 03  | 0 / 299 °C |
| HT 16 - 12 | TCK    | 06 16 12  | 0 / 999 °C |

Consult for others ranges

## HT 26 UNIVERSAL TEMPERATURE REGULATOR (16 A) ,ADAPTABLE HEATER POWER (Protection

The technical data of the HT26 regulator is very similar to the HT16. but with the connections, power strips, in a separate box from the main body with the corresponding gland. IP 65 Protection  
Dimensions 240 x 120 x 90 mm



### MODELS AVAILABLE

| Model      | Output | Reference | Range      |
|------------|--------|-----------|------------|
| HT 26 - 28 | Pt 100 | 06 26 28  | 0 / 99 °C  |
| HT 26 - 17 | TCJ    | 06 26 17  | 0 / 299 °C |
| HT 26 - 26 | TCK    | 06 26 26  | 0 / 999 °C |

Consult for others ranges

## HT 22 TEMPERATURE REGULATOR (Protection IP 65

High-Quality Temperature Regulator with Splash-Proof Case



### TECHNICAL DATA

|                     |                    |
|---------------------|--------------------|
| Range               | Depending of model |
| Nominal voltage     | 230V               |
| Switching power     | 2300W              |
| Control             | PD                 |
| Safety class        | Clase II           |
| Protection class    | IP 65 (DIN 40 050) |
| Ambient temperature | 0 a 40 °C          |
| Dimensions          | 55 x 80 x 150 mm   |
| Case material       | ABS                |
| Accuracy            | 1,5 %              |
| Power control       | By relay           |

### MODELS AVAILABLE

| Model      | Output | Reference | Range       |
|------------|--------|-----------|-------------|
| HT 22 - 08 | Pt 100 | 06 22 08  | 0 / 100 °C  |
| HT 22 - 03 | TCJ    | 06 22 03  | 0 / 500 °C  |
| HT 22 - 07 | TCK    | 06 22 07  | 0 / 1000 °C |

Consult for others ranges

## TEMPERATURE CONTROL EQUIPMENT WITH IP 65 PROTECTION

### HT MC1

#### Microprocessor Temperature Regulator

Regulator mounting plate or wall.  
Possible use of different temperature sensors  
Optional outputs RS 232 or RS 485  
It can incorporate a temperature limit with a Pt 100 probe further



#### TECHNICAL DATA

|                       |                                    |
|-----------------------|------------------------------------|
| Control system        | P / PID / PID self-optimizing      |
| Nominal voltage       | 230V                               |
| Output                | 1 relé 5A 250V, libre de potencial |
| Power control         | triac                              |
| Starting ramp         | 6 segments                         |
| Control amplifier     | 0 .....500%                        |
| Power control         | 0.....100%                         |
| Safety class          | Class I                            |
| Protection class      | IP 65 (DIN 40 050)                 |
| Diameter of terminals | 2,5 mm <sup>2</sup> or connector   |
| Case material         | ABS / Polycarbonate                |

#### MODELS AVAILABLE

| Model        | Connection by                                                     | Switching power | Dimensions        |
|--------------|-------------------------------------------------------------------|-----------------|-------------------|
| HT MC1 B     | multicontact socket "Binder S693"                                 | 2300W a 230Vca  | 160 x 80 x 85 mm  |
| HT MC1 S     | mehrpole Steckdose "Schaltbau M1" with temperature limiting input | 2300W a 230Vca  | 160. x 80 x 85 mm |
| HT MC1 V     | Cable glands                                                      | 2300W a 230Vca  | 160 x 80 x 85 mm  |
| HT MC1 15A S | mehrpole Steckdose "Schaltbau M1" with temperature limiting input | 3450W a 230Vca  | 160 x 120 x 90 mm |
| HT MC1 15A V | Cable glands                                                      | 3450W a 230Vca  | 160 x 120 x 90 mm |

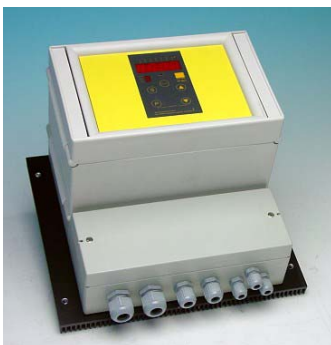
#### ACCESORIES

| Model       | Description                         | Application                   |
|-------------|-------------------------------------|-------------------------------|
| RS 232      | option: RS 232 interface for HT MC1 | For all types                 |
| RS 485      | option: RS 485 interface for HT MC1 | For all types                 |
| Connector B | multipole plug "Binder S693"        | For HT MC1 B                  |
| Connector S | multipole plug "Schaltbau M1"       | For HT MC1 S and HT MC1 15A S |

### HT MC1 P16

#### Microprocessor Temperature Regulator

The control system characteristics of this regulator are similar to the HT MC1. It is specially designed for high switching currents in three-phase systems.



#### TECHNICAL DATA

|                       |                               |
|-----------------------|-------------------------------|
| Control system        | P / PID / PID self-optimizing |
| Nominal voltage       | 230 / 400V 50Hz               |
| Power control         | Relay SSR                     |
| Starting ramp         | 6 segments                    |
| Safety class          | Class I                       |
| Protection class      | IP 65 (DIN 40 050)            |
| Diameter of terminals | 2,5 mm <sup>2</sup>           |
| Cable glands          | 2 x M 20, 2 x M16, 3 x M 12   |
| Case material         | ABS / Polycarbonate           |

#### MODELS AVAILABLE

| Model      | Connection by | Switching power | Dimensions         |
|------------|---------------|-----------------|--------------------|
| HT MC1 P16 | Cable glands  | 11 kW           | 230 x 270 x 130 mm |

## HLD POWER UNIT FOR HIGH SWITCHING CURRENTS

Power Control Unit. Does not include regulator. 3 models are manufactured for different powers.



#### TECHNICAL DATA

|                       | HLD 20                  | HLD 35                   | HLD 50                   |
|-----------------------|-------------------------|--------------------------|--------------------------|
| Switching power       | 10 / 12 kW              | 17 / 22 kW               | 30 / 35 kW               |
| Safety class          | II                      | II                       | II                       |
| Protection class      | IP 65                   | IP 65                    | IP 65                    |
| Diameter of terminals | 2,5 + 4 mm <sup>2</sup> | 2,5 + 10 mm <sup>2</sup> | 2,5 + 16 mm <sup>2</sup> |
| Case dimensions       | 150 x 200 100 mm        | 150 x 200 x 100 mm       | 160 x240 x 120 mm        |
| Material caja         | ABS / Polycarbonate     | ABS / Polycarbonate      | ABS / Polycarbonate      |