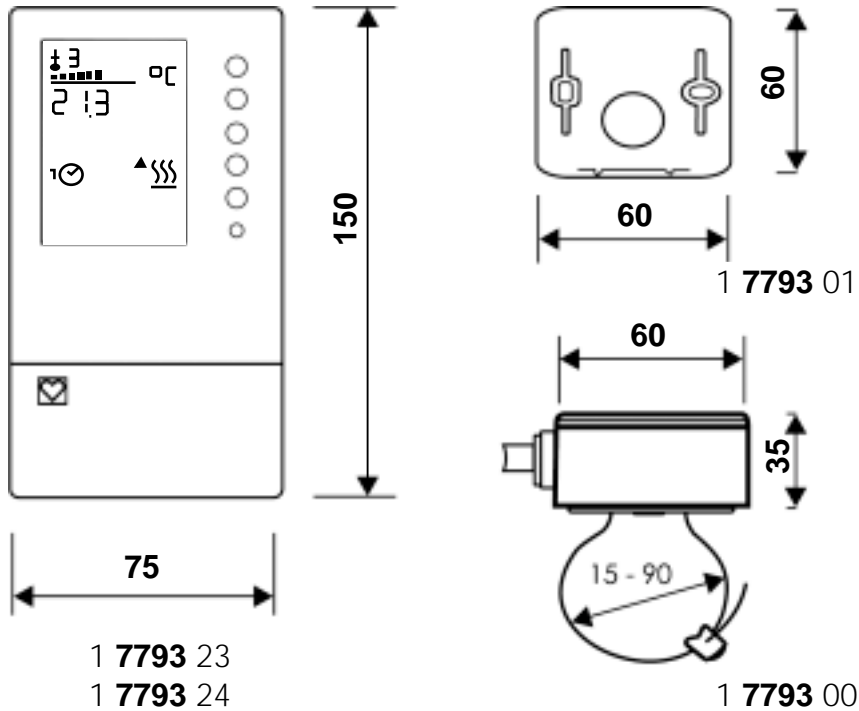


HERZ-Electronic controller

Standard sheet for

7793

Issue 0902 (0502)



Dimensions in mm

Electronic heat regulator with PI-behaviour and programmable time and temperature adjustment. Fixed basic programme (pre-setting) for first operation. Easy adaptation of installation, mode switch and service parameter.

Body made of non-inflammable plastic body with electronics, white RAL 9010.

Front side with keyboard and digital display window.

Digital timer with weekly and yearly programme. Automatic switch from summer to winter time. Three programmable temperature levels: reduced / normal / comfort. Frost protection can be activated in stand-by mode. Programmable input function, two Triac outputs and a relay with operating hours counter.

Instead of function circulating pump, the relay can be used as pilot clock for time independent control of several room temperature controllers.

Electrical connection at socket spanner with terminal screws for cable up to 2.5 mm². Cable entry from behind.

Model

1 7793 23 **Electronic controller 110 – 230 V**

1 7793 24 **Electronic controller 24 V**

1 7793 00 **Temperature sensor (internal)**

Quick and easy temperature measurement of pipework. Body made of olive-yellow non-inflammable plastic with thin nickel plated sensor (elastic bearing) according to DIN 43760.

Heat conducting paste and tightening strap for pipes with diameters 15...90 mm included in package.

Nickel measuring resistance changes with temperature.

Temperature coefficient is always positive which means that resistance increases as temperature increases.

1 7793 01 **Outside temperature sensor for heat regulator**

To measure outside temperature for heating systems controlled by atmospheric conditions.

Socket and cover made of white plastic RAL 9010, thin nickel plated sensor according DIN 43760.

Connectors for cables maximum 1.5 mm², cable entry from behind or below, for cable screw connections Pg11.

The nickel measuring resistance is always positive, meaning that resistance increases as temperature increases.

Surface and flush mounting possible.

Article numbers

We reserve the right to make alterations necessitated by technological progress and/or market requirements.

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- 1 **7793 23_24** **Electronic heat regulator**
Applicable for wall or flush mounting. Electrical connection in socket spanner, pre-assembly possible.
In case of all year power supply of device it is guaranteed that pump and valve are firm and well secured.
- 1 **7793 00** **Temperature sensor**
Tightening strap for pipe dimensions 15...90 mm and heat conducting paste. Spread heat conducting paste on a clean section of pipe and fix sensor with tightening strap.
- 1 **7793 01** **Outside temperature sensor**
Surface and flush mounting possible. Avoid direct sunlight.
Also avoid mounting above windows, ventilations, chimney walls or similar sources of heat.

Mounting directions

- 1 **7793 23** **Electronic heat regulator**
110 - 230 V
1 **7793 24**
24 V
- | | | |
|------------------------------------|------------------------|--|
| Set value range | 8...38°C | |
| Controller action | PI | |
| Voltage | 110...230 V / 24 V | |
| Weight | 0.28 kg | |
| Digital timer | 1 weekly programme | Max. 42 switchings
Shortest interval 10 minutes |
| | 1 yearly programme | Max. 6 switchings
Shortest interval 1 d |
| | Accuracy | +/- 1s/d bei 20°C |
| | Power reserve | > 6 h (Super Cap, 20°C) |
| | Parameter | Not volatile |
| Supply voltage tolerance | | +/- 15%, 50...60 Hz |
| Power consumption | | < 1,5 VA |
| Breaking capacity | | |
| Triac 0.3 (0.5) A | 230 V | 24 V |
| Relay 5 (2) A | 230 V | 24 V |
| Extra-low voltage 0.2 A | < 60 V | < 60 V |
| PI controller | P-range Xp = 2...100 K | |
| | Reset time | tn = 15...999 s |
| | Delay time valve | 30...300 s |
| | Temperature level | Off/Reduced/Normal/Comfort Pre-settings |
| | Reduced | 17 °C |
| | Normal | 20 °C |
| | Comfort | 21 °C |
| Frost protection temperature | | 3 °C (outside), 8 °C (inside) |
| Time constant | | 22 minutes |
| | Delay time | 2 minutes |
| Admissible ambient temperature | | 0...50 °C |
| Admissible ambient humidity | | 5...95 % r.F. |
| Storage & transport temperature | | -25...+65 °C |
| Conformity | | EN 12098 and CE |
| Degree of protection | | IP 30 (EN 60529) |
| Protection class | | II (IEC 536) |
| EM radiation | | EN 50081-1 |
| EM immunity | | EN 50081-1 |
| Degree of interference suppression | | EN 55014 and 55022 |
| Safety | | EN 60730-1 |
- 1 **7793 00** **Temperature sensor**
- | | |
|--------------------------------|----------------------|
| Nominal value at 0 °C | 1000 Ohm |
| Measuring range | -30...130 °C |
| Weight | 0.1 kg |
| Value of resistance | According DIN 437600 |
| | Tolerance at 0°C |
| | +/- 0.4 K |
| Middle temperature coefficient | 0.00618 K-1 |
| Self-heating | 0.1 K/mW |
| Time response (Water 1 m/s) | Delay time 1 s |
| Maximum overhead temperature | 80 °C |
| Degree of protection | IP 42 (EN 60529) |
- 1 **7793 01** **Outside temperature sensor**
- | | |
|--------------------------------|--------------------------|
| Nominal value at 0 °C | 1000 Ohm |
| Measuring range | -50...80 °C |
| Weight | 0.1 kg |
| Value of resistance | According 60DIN 437 |
| | Tolerance at 0°C |
| | +/- 0.4 K |
| Middle temperature coefficient | 0.00618 K-1 |
| Self-heating | 0.2 K/mW |
| Time response | Air |
| | Dormant |
| | Delay time |
| | 1.5 minutes |
| | Time constant 10 minutes |
| In motion | Delay time |
| | 1.0 minutes |
| | Time constant 6 minutes |
| Degree of protection | IP 42 (EN 60529) |

Structural characteristics

- 1 **4037 ..** HERZ 3-way mixing and diverting valves
1 **7796 02** HERZ Safety transformer 230V/24V, 50 Hz, 50VA

Accessories