

Electric heating controllers

Electric heating controller



Wall mounting



DIN-rail mounting

These PULSER controllers are intended for control of radiators or electric heating batteries. They can either be mounted on a wall or in a cabinet. The controllers pulse the entire power output ON/OFF and utilise time-proportional triac-control. Automatic adaption of control function, P or PI-control.

- Automatic adaption of control function and supply voltage
- 1-phase or 2-phase supply

| Technical data | |
|---------------------|--|
| Supply voltage | 200...415 V AC, 50...60 Hz, 1-phase or 2-phase, automatic adaptation |
| Ambient temperature | Max 30°C (N.B Pulsar generates 20W. Heating at full load). |
| P-band | 20 K (Rapid temperature changes) 1.5 K (Slow temperature changes) |
| Reset-time | 6 min (Rapid temperature changes) |
| Pulse period | 60 s |
| Inputs | |
| Sensor | One (1), main sensor or two (2) (Only Pulsar-M) |
| Setpoint | 0...30°C, the sensor determines the scale range (Regin NTC-sensor) |
| Night set-back | 0...10 K |
| Output (load) | 16 A (1 A) 1-phase max 3.6 kW, 2-phase max 6.4 kW |
| Mounting | DIN-rail or wall-mounting |
| Protection class | IP30 (PULSER/D IP20) |

For automatic adaption both 230V AC or 400V AC

| Description | Mounting | Type | Notes |
|---|-----------------------------------|------------|-------|
| Basic model | Wall | PULSER | |
| Basic model | DIN-rail, 6.6 modules (115x88x59) | PULSER/D | |
| ADD-on unit | Wall | PULSER-ADD | |
| With min/max limitation | Wall | PULSER-M | |
| For external control signal 0...10 V DC | DIN-rail, 6.6 modules (115x88x59) | PULSER-X/D | |

1-phase, 230V AC or 2-phase, 400V AC

| Description | Supply voltage | Mounting | Type | Notes |
|---|----------------|----------|---------------|-------|
| With reset function for heater high temperature limit | 230 V AC | Wall | PULSER220R | |
| For external control signal 0...10 V DC | 230 V AC | Wall | PULSER220X010 | |
| For external control signal 0...10 V DC | 400 V AC | Wall | PULSER380X010 | |

Electric heating controller with display



Pulser-DSP is a room controller intended for electric heating control. The controller can be connected to 1-phase or 2-phase electric heating i.e. electric batteries, radiators etc. Pulser-DSP has a built-in sensor and an external sensor can be used, as well. Presence detector can be connected for control of so called comfort heating. This means that, when the room is empty, the controller is set to stand-by position with reduced setpoint. Setpoint, P-band and stand-by settings etc. are set by using the buttons on the controller.

- With display
- Adjustable P-band and I-time

| Technical data | |
|----------------------|--|
| Supply voltage | 200...415 V AC, automatic adaptation |
| Output (load) | 2.3 kW at 230 V AC, 4 kW at 400 V AC |
| Settings | |
| Setpoint | 0...30°C, the sensor determines the scale range (Regin NTC-sensor) |
| Comfort heating | 0...30°C |
| Stand-by temperature | 0...30°C |
| P-band | 0.5...99.9 K |
| I-Time | 1...999 s |
| Presence detection | On/Off |
| Mounting | Wall-mounting |
| Protection class | IP30 |

| Description | Type | Notes |
|------------------------------|------------|-------|
| Room controller with display | PULSER-DSP | |

Electric heating controller



Pulser-LON is a room controller based on LON-technology. It has a triac output for controlling electric heating (10 A) and an extra output (cooling or heating), 3-position or 24 V AC thermal actuator. The controller has a built in sensor and setpoint knob. The setpoint can be shifted +/- 3°C. An external sensor or setpoint device can also be used. Pulser-LON can operate in different running modes: present, nonpresent and stand-by. The basic setpoint can be shifted with different values for heating and cooling. A window contact can be used to block the control when a window is open.

- With LonWorks communication
- Heating and cooling

| Technical data | |
|---------------------|--|
| Supply voltage | 1-phase, 230 V AC and 24 V AC |
| Output (load) | 10 A |
| Setpoint | 0...30°C, the sensor determines the scale range (Regin NTC-sensor) |
| Setpoint adjustment | +/-3°C adjustment |
| Load (extra output) | 24 V AC, 3-point or one on/off, 0.5 A |
| Mounting | Wall-mounting |
| Protection class | IP30 |

| Description | Type | Notes |
|--|---------------|-------|
| Room controller with LON-communication, heating or cooling in sequence | PULSER-HC-LON | |