



**J.09**

**Heating and cooling batteries**

**TTC 2000**

Controller  
 Electrical

**Accessories**

- TG-A130**  
Clamp-on temperature sensors
- TG-K330**  
Duct temperature sensors
- TG-K360**  
Duct temperature sensors
- TG-R430**  
Room temperature sensors (adjustable)
- TG-R530 REGIN**  
Room temperature sensors

## Triac controllers type TTC 2000

Triac controller for wall mounting with setpoint adjustment for controlling 3-phase electric heating batteries, it is possible to connect an external sensor to the controller, it is also possible to let the controller run against an external 0 - 10 V DC signal

### Application

- Electric heating batteries

### Specifications

- Possible to connect 230 V or 400 V 3-phase electric heaters
- Maximal load : 9,5 kW (230V) or 16,5 kW (400V)
- Room temperature control : for slow temperature changes, works as P-controller (P = 2K)
- Supply air temperature control : for rapid temperature changes, works as PI-controller (P = 20K, reset time = 6 min)
- Settable cycle time : 6 to 120 s
- Min/max limit possible : 0 to 60°C

### Mounting

- Wall

### Accessoires

- Duct temperature sensors, **Type TG-K330**
- Room temperature sensors, **Type TG-R530**
- Min/max temperature sensors, **Type TG-K360**
- Room temperature sensors for external setpoint, **Type TG-R430**

### Technical data

- Supply voltage : 230V AC or 400V AC, 3-phase. Automatic adaptation
- Current : minimum 3 A - maximum 25 A
- IP 30
- Proportional band : 2K fixed (room control) / 20K fixed (supply air temperature control)
- Reset time : 6 minutes, fixed (supply air temperature control)
- Pulse period : 6 to 60 s



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- LED indication on the controller when the output is active
- Two inputs for NTC sensors, one main sensor and one min/max limit
- One input for 0 - 10 V DC control signal
- Setpoint : selectable, either internal or external

### **Function**

- The controller pulses the entire power output ON/OFF. The controller utilises time-proportional control, the ratio between On-time and Off-time is varied to fit the prevailing heating requirement (example ON = 30s and OFF = 30s gives 50 % output power).

### **Settings**

- Setpoint range : 0 to 30°C, the choice of sensor determines the controller setpoint range
- Minimum limit : 0 to 30°C
- Maximum limit : 20 to 60°C
- Cycle time : 6 to 120 s

### **Dimensions**

- (W x H x D) : 160 x 207 x 94 mm