Application

The temperature regulator serves as on-off controller to control room temperatures, medium or surface temperatures within hazardous areas.
If required, the temperature regulator can be supplied with fix set point (without outer regulating knob). It can then be used as temperature limiter, connected via relays in coil current circuit.
Each temperature Regulator is supplied with operating instruction and on request declaration of conformity.

Type of protection

EEx qe II T6 resp. EEx q II T6, acc. to European Standards EN 50014, in the Category ⟨Ex⟩ II 2 G + 3D.
International Protection IP 56 at minimum according to EN 60529.

Technical Data

All technical data can be obtained from the appropriate documentation: data sheet, connection diagram, nameplate, and certificates.

Storage Instructions

The storage instructions must be observed when the temperature regulator will not be installed and operated immediately after delivery.

Installation

For the installation and operation the respective valid regulations must be observed. In Europe (EC) are valid EN 60079-14 and EN 60079-17 and directive 1999/92/EC are valid. In Germany accessory Ex-rules of the BG-Chemistry and 'Betriebssicherheitsverordnung'.
At installation the mounting position is optional.
The temperature regulator is mounted by means of screws on the flat wall or on a suitable position on plant support, machine parts or similar. The capillary tube must not be kinked. At installation, sufficient protection against mechanical damage has to be provided. The bending radius must not be less than 5 mm. With the room thermostat (range -20…+50 °C), two clamps for probe mounting are supplied.
The electric connection must be done with cables resp. flexibles corresponding to the harmonized standards. Cables with cross section according to the rated current have to be connected to the terminals inside the connection box. The supply lines have to be protected by appropriate pre fuses. For each connecting cable a potential equalization terminal is provided.
The cable glands are suitable for type of protection EEx e II. The cable diameters must correspond to the tightening range of the appropriate cable gland. Not used thread openings must be closed according to EN 50019.

Maintenance, Disturbance

Damages at parts of the ‘powder filling‘ and at the connecting parts must be repaired immediatly but only with original spare parts. Function testing in connection with the heating system in suitable periods at least every three years.
For possible repairs the temperature regulator must be shipped to the workshop of ELMESS-Thermosystemtechnik GmbH&Co. KG, Nordallee 1, D-29525 Uelzen. Information: www.elmess.de