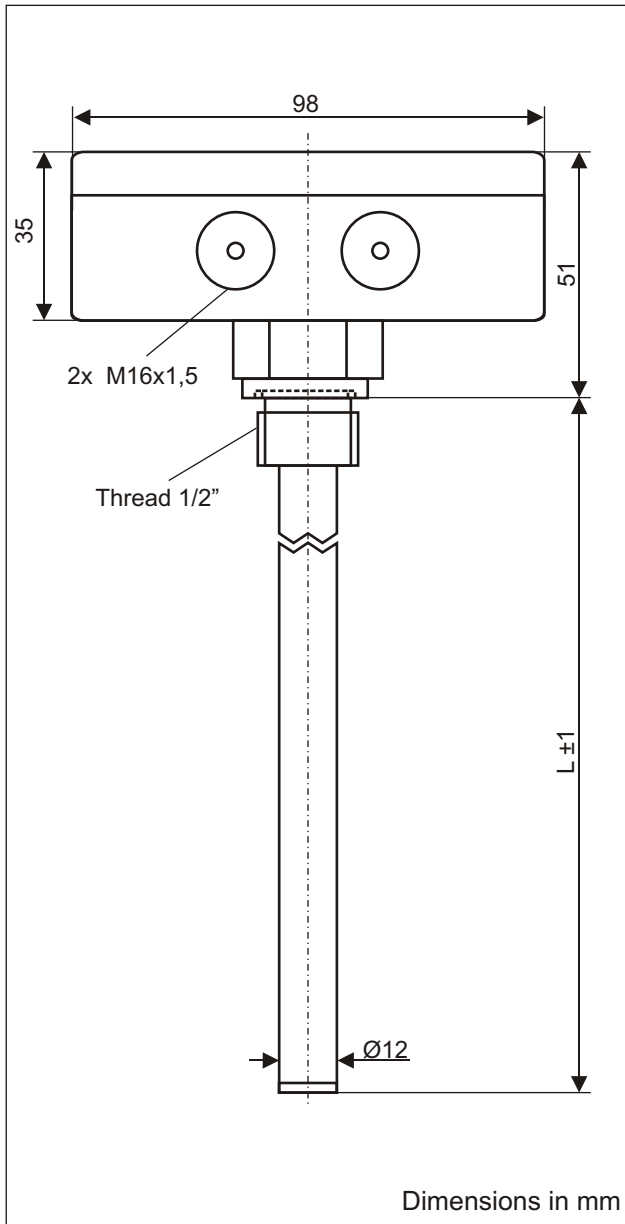


Data sheet
Adjustable temperature switch, controller
Type: ETS-1...01



Features

- Adjustable temperature switch up to max. 2 steps
- Temperature sensor in conduit, mounted on the housing or externally via cable connection

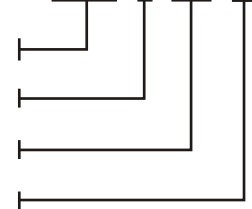
Fields of application

- Temperature control
- Monitoring of cooling and heating circuits
- Temperature overload protection for systems

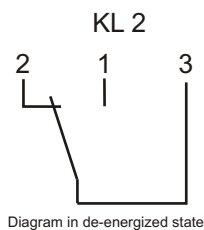
Order key

- Type ETS-1
No. of temperature steps
Conduit length in mm, e.g. 200
Design - 01

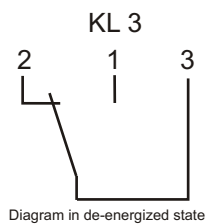
Example: **ETS-1. 2. 200. 01**



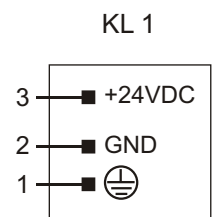
Terminal diagram



Step 1:
Temperature switch, controller
change-over contact,
230VAC / 2A



Step 1:
Temperature switch, controller
change-over contact,
230VAC / 2A



Supply voltage

Data sheet

Adjustable temperature switch, controller

Type: ETS-1...01

Technical data

Housing:	alu die-cast housing, colour RAL7001 (grey) 98x64x35mm (wxdxh)
Connection:	cable entry at the housing 2x M16x1,5 customized connections on demand conductor cross section solid: 0,14 to 2,5mm ² , AWG 26-14 conductor cross section flexible: 0,14 bis 1,5mm ² , AWG 26-16
Mounting:	½" alu tread, other mountings on demand
Seal:	material NBR, other materials on demand
Sensor tube:	ø12mm or ø8mm, length L ±1mm acc. to specification, material brass or stainless steel
Switching capacity:	230VAC / 2A
Switching function relay:	off when upper limit value is exceeded on when actual value goes below lower limit value
Setting range temperature:	upper limiting value 0°C to 99°C lower limiting value = upper limiting value minus hysteresis hysteresis 3°C
Measuring range temperature:	measuring range -55°C to 125°C (attention! see operating temperature) resolution 1,0°C measuring accuracy ±0,5°C from -20°C to 110°C
Supply voltage:	24VDC ±15%, reverse polarity protected
Operating current:	< 45mA
Pressure:	max. 1 bar
Operating temperature:	-20°C to 100°C in medium, -10°C to 70°C above mounting
Protection rating:	IP 65
Certificate:	in accordance with CE

Data sheet

Adjustable temperature switch, controller

Type: ETS-1...01

Technical description

- Setting:** After opening the housing the temperature switching point can be set in °C by using the two rotary encoder switches. Use the left rotary switch to enter the 1 st digit respectively the tens digit of the value. Enter the 2nd digit respectively the unit digit by using the right rotary switch. You will find a detailed adjusting guideline on our website.
- Intrinsic safety:** The relay is energized at rest, ig. limit is not exceeded. A sensor failure, sensor connection, upper limit value overrun or power failure results in a drop in the relay and possibly a fault indication.
- Operating indication:** The operation indicator (red LED) indicates both the operation and a malfunction. A short flash signals an evaluation cycle consisting of read temperature, read code switch, update evaluation and relay. The relay has a display (yellow LED) which lights up in rest position, ig. upper limit is not exceeded.
- Fault indication:** The combined trip and fault indication (red LED) is predominantly on in the event of a fault and flashing indicates an error code.
- Display 1x flash = short circuit line 1 sensor
Display 2x flash = short circuit line 2 sensor
Display 3x flash = sensor fault
Display 4x flash = sensor short circuit