revision
05 2016

TLT...(-420)

Temperature transmitter

TLT is a range of high quality temperature transmitters for immersion mounting

The transmitters are constructed around a temperature element providing a signal proportional to the temperature. The built-in electronics convert the measurement signal to an output signal 0...10 V DC or 4...20 mA.

Supply voltage

The transmitters can be powered either with 24 V AC or 18...35 V DC (0...10 V models), or 11...30 V DC (4...20 mA models). The transmitters will automatically adapt to the supply voltage.

Immersion well

The transmitter is supplied with a nickel plated brass/ copper well with a R 1/2" connection.

Short facts about TLT...(-420)

- Excellent long-term stability
- Wide measurement range
- Output signal 0...10 V DC or 4...20 mA
- Supply voltage 24 V AC or 15...35 V DC
- Protection class IP65

Models

Model	Supply voltage	Unit range	Output signal	Measurement method	Mounting
TLT100	18...24 V AC or 18...35 V DC	0...100°C.	0...10 V	3-wire	Immersion mounting
TLT100-420	11...30 V DC	0...100°C.	4...20 mA	2-wire	Immersion mounting
TLT50	18...24 V AC or 18...35 V DC	-30...+50°C	0...10 V	3-wire	Immersion mounting
TLT50-420	11...30 V DC	-30...+50°C	4...20 mA	2-wire	Immersion mounting

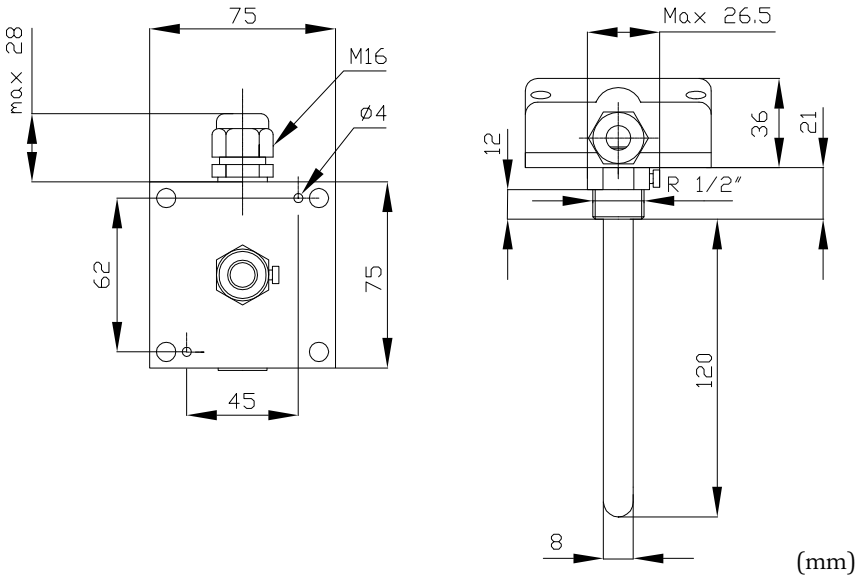
Technical data

Power consumption	15 mA (0...10 V output signal)
Output load	Max. 1 mA (0...10 V), max. 500 Ω (4...20 mA)
Measurement accuracy	± 2°C for TLT100(-420), alt. ± 1.5°C for TLT50(-420)
Cable connection	Screw terminals
Sensor type	NTC 10K
Material	
sensor housing	Polycarbonate (PC)
well	Nickel plated brass/copper
sensor	Nickel plated brass
Immersion length	120 mm
Pipe fitting	R 1/2"
Protection class	IP65
Weight	0.25 kg
Storage temperature	-20…+70°C
Load impedance	
TLT50 / TLT100	Min. 10 kΩ
TLT50-420 / TLT100-420	Max. 500 Ω

CE

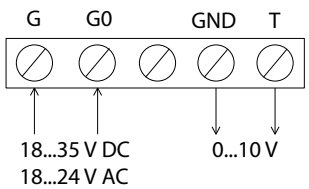
EMC emissions & immunity standards: This product conforms to the requirements of the EMC Directive 2014/30/EC through product standards EN 61000-6-1 and EN 61000-6-3.
RoHS: This product conforms with the Directive 2011/65/EU of the European Parliament and of the Council.

Dimensions and wiring

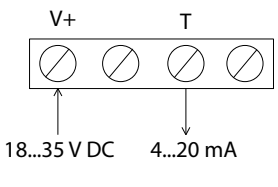


(mm)

TLT50/TLT100



TLT50-420/TLT100-420



$V \pm (0.02 * R_L) \geq 11$ V
(R_L = loop resistor)

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