

The transmitter measures the temperature with an NTC thermistor. The microprocessor samples the temperature once per second. It calculates an averaging signal over a preset number of seconds and generates an output signal based on minimum and maximum values. Standard temperature range is 0...50 °C and 10 seconds average. The range and averaging samples may be customized.



## Features

- ◆ Temperature measurement for air ducts
- ◆ Minimum and maximum value memory
- ◆ 0...10V or 0...20mA measuring signals, selectable with jumpers
- ◆ Selectable averaging signal

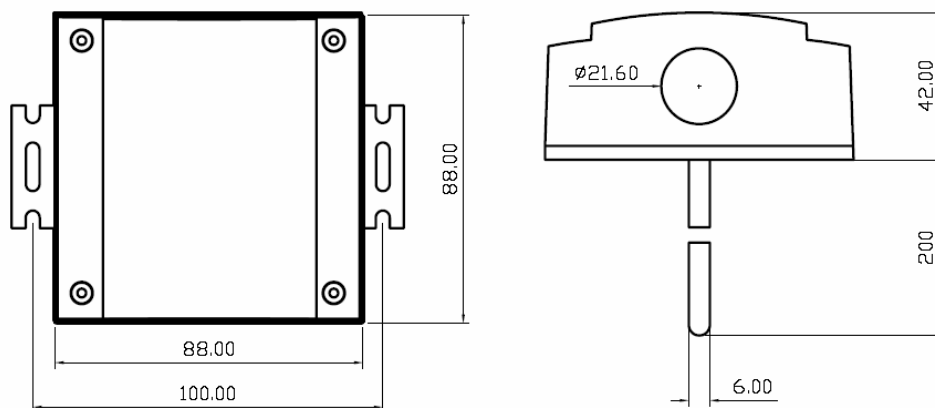
## Applications

- ◆ Temperature measurement in the field of heating, ventilation and air conditioning.
- ◆ Recording of minimum and maximum values for critical environments
- ◆ Supervision of critical humidity and temperatures


## Minimum and Maximum Values

Using the programming tool, the user has the option to read out and reset minimum and maximum values. The minimum and maximum values may as well be used as output signals. The minimum and maximum values are saved into the EEPROM and will be available after a power failure.

## Dimensional Drawing



# Specifications

<b>Power Supply</b>	Operating Voltage	24 V AC 50/60 Hz $\pm$ 10%, 24VDC $\pm$ 10%
	Power Consumption	Max 2 VA
	Electrical Connection	Terminal Connectors
<b>Sensing Probe</b>	Temperature Sensor: Range Accuracy	NTC - Thermistor -70...150 °C $\pm$ 0.2 K at 25 °C
<b>Connection</b>	Connection Terminals	2.5 mm <sup>2</sup>
<b>Signal Outputs</b>	Analog Output Output Signal Resolution Accuracy Maximum Load	DC 0-10V or 0...20mA 10 Bit, 9.7 mV, 0.019.5 mA $\pm$ 2% 20 mA, 500 $\Omega$
<b>Environment</b>	Operation Climatic Conditions Temperature Humidity	To IEC 721-3-3 class 3 K5 -40...70°C <95% r.h.
	Transport & Storage Climatic Conditions Temperature Humidity Mechanical Conditions	To IEC 721-3-2 and IEC 721-3-1 class 3 K3 and class 1 K3 -40...80°C <95% r.h. class 2M2
<b>Housing Materials</b>	Cover & Mounting Plate Probe	Fire proof ABS plastic Stainless Steel
<b>Standards</b>	 conform according to EMC Standard 89/336/EEC	EN 61 000-6-1/ EN 61 000-6-3
	Product standards Automatic electrical controls for household and similar use Special requirement on temperature dependent controls	EN 60 730 –1 EN 60 730 – 2 - 9
	Degree of Protection	IP56 to EN 60 529
	Safety Class	III (IEC 60536)
<b>General</b>	Dimensions [mm]	Cover: 42 x 112 x 88 (H x W x D) Probe: $\varnothing$ 6 x 200 (Diameter x L)
	Weight (including package)	135g

## Order Information

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Item Name	Description/Option	
SDA-T1-YY		Standard: 2...10V DC signal, 0...100%rH range
SDA-T1-YY-W	0	Output Signal: 2...10V DC/ 4...20mA
	1	Output Signal: 0...10V DC/ 0...20mA
	2	Output Signal: Special – Specify
	0	Temperature Range: 0...50 °C
	1	Temperature Range: -20...80 °C
	2	Temperature Range: -40...60 °C
	3	Temperature Range: Special - Specify
YY indicates the probe length. Standard probe length is 20cm		