

# **SRC-T1 Indoor Temperature Transmitter**

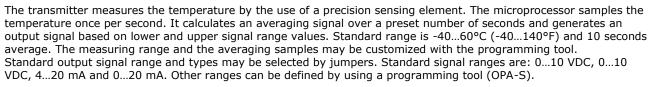
#### **Features**

- Indoor temperature measurement
- Minimum and maximum value memory
- 0...10V, 0...20mA or 2...10V, 4...20mA measuring signals selectable with jumpers
- Optional alternative signal ranges programmable
- Selectable averaging signal
- Optional external display (OPA-S)
- Status LED

## **Applications**

- Indoor temperature measurement in heating, ventilation and air conditioning applications.
- Recording of minimum and maximum values for critical environments
- Supervision of critical 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 are available after a power interruption.

## **Ordering**

Item Name	Item Code	De	scription/Option	
SRC-T1	40-30 0058	Ter	Temperature transmitter	
SRC-T1-W0	40-30 0058-0	0	Temperature Range: -4060°C (-40140°F) (Default)	
SRC-T1-W1	40-30 0058-1	1	Temperature Range: -3535°C (-3195°F)	
SRC-T1-W2	40-30 0058-2	2	Temperature Range: 050°C (32122°F)	
SRC-T1-W3	40-30 0058-3	3	Temperature Range: Special - Specify in order	

#### **Accessories**

Item Name	Item Code	Description/Option
OPA-S	40-50 0006	External display module



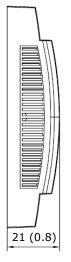


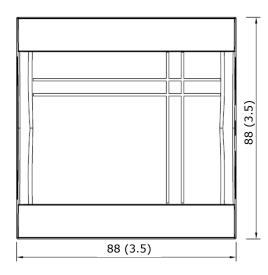
## **Technical Specification**

**Warning! Safety advice!** This device is intended to be used for comfort applications. Where a device failure endangers human life and/or property, it is the responsibility of the owner, designer and installer to add additional safety devices to prevent or detect a system failure caused by such a device failure. The manufacturer of this device cannot be held liable for any damage caused by such a failure. Failure to follow specifications and local regulations may endanger life, cause equipment damage and void warranty.

Power Supply	Operating Voltage Transformer	24 V AC 50/60 Hz $\pm$ 10%, 24VDC $\pm$ 10% SELV to HD 384, Class II, 48VA max
	Power Consumption	Max 2 VA
	Terminal Connectors	For wire 0.342.5 mm <sup>2</sup> (AWG 2412)
Sensing Probe	Accuracy: 050°C (32122°F): 5060°C (122158°F): allow one hour after power up for comp	0.2 K 0.5 K ensation swing in
Signal Outputs	Analog Outputs Output Signal Resolution Maximum Load	DC 0-10V or 020mA 10 Bit, 9.7 mV, 0.019.5 mA Voltage: $\ge 1$ kΩ Current: $\le 500$ Ω
Environment	Operation Climatic Conditions Temperature Humidity	To IEC 721-3-3 class 3 K5 060°C (32140°F) <95% R.H. non-condensing
	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 -4070°C (-40158°F) <95% R.H. non-condensing class 2M2
Standards	conformity EMC Directive Low Voltage Directive	2004/108/EC 2006/95/EC
	Product standards Automatic electrical controls for household and similar use	EN 60730-1
	Electromagnetic compatibility for domestic and industrial sector	Emissions: EN 60 730-1 Immunity: EN 60 730-1
	Degree of Protection	IP30 to EN 60 529
	Safety Class	III (IEC 60 536)
General	Housing Materials Cover Mounting Plate	Fire proof ABS plastic Galvanized Steel
	Dimensions (H x W x D)	21 x 88 x 88 mm (0.8 x 3.5 x 3.5 in)
	Weight (including package)	160 g (5.6 oz)
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## **Dimensions mm (inch)**







## Mechanical design and installation

The unit consists of two parts: (a) The mounting plate and (b) the cover with the transmitter.

## **Mounting location**

Mount the transmitter on a flat interior wall of the room to be controlled. Do avoid obstructions such as shelves, curtains and recesses. Do not place near heat sources, draft channels. Do not expose to direct sunlight.

#### **Mounting instruction**

See installation sheet no. 70-000568 (www.vectorcontrols.com).

## **Configuration**

The transmitter can be adapted to fit perfectly into any application by adjusting the software parameters. The parameters are set with the operation terminals OPA-S. The OPA-S may also be used as remote indicator.

## Input configuration

Parameter	Description	Range	Default
IP 00	TI1: Celsius or Fahrenheit, C = OFF, F = ON	ON, OFF	OFF
IP 01	TI1: Samples taken for averaging control signal	1255	10
IP 02	TI1: Calibration	-1010	0
IP 03	TI1: Minimum temperature	-40215 °C/F	0 °C
IP 04	TI1: Maximum temperature	-40215 °C/F	50°C

## **Output configuration**

Parameter	Description	Range	Default
OP 00	AO1: Configuration of output signal:	0 - 2	0
	0 = Feedback temperature input,		
	1 = Feedback temperature minimum value		
	2 = Feedback temperature maximum value		
OP 01	AO1: Minimum limitation of output signal	0 – Max %	0%
OP 02	AO1: Maximum limitation of output signal	Min - 100%	100%



#### **Output signal configuration**

The analog output signal type may be configured with a jumper for 0-10 VDC or 0-20 mA control signals. The jumpers are located next to the terminal connector of each analog output. See table below for jumper placement. The factory setting is to 0-10 VDC.

The signal range may be set with JP3 for both analog outputs. JP3 will only
operate if the output range specified with OP01 and OP02 is left at the
default position of 0100%. With any other setting the position of JP3 has
no influence and the range defined with the output parameters applies.

Signal Type	JP1
0 - 10 V	(1-2)
0 – 20 mA	(2-3)

Signal Range	JP3
0 - 10 V, 0 - 20 mA	(1-2)
2 - 10 V, 4 - 20 mA	(2-3)

## **Jumper Settings**

