revision
03 2009

The CSTRTN line

Temperature transmitters

Room transmitters for measurement of temperature.

- **Protection class IP30**
- **Good long term stability**
- **Output signal 0...10 V DC or 4...20 mA**
- **Snap-on cover**
- **Resistant to contamination**
- **Accuracy ±0.3°C**

The CSTRTN temperature transmitters are intended for room mounting in HVAC systems.

The temperature sensor gives output signal 0...10 V DC or 4...20 mA via the built-in electronics.

Supply voltage

For output signal 0...10 V, the transmitter should be supplied with 15...40 V DC or 24 V AC ±20%. For output signal 4...20 mA, the transmitter should be supplied with 20...28 V DC > U_V > 10 + 0.02 x R_L (R_L is the input load resistance of the connected controller. R_L must be < 500 Ohm.).

The transmitter has automatic adaptation to the connected voltage.

REGIN

THE CHALLENGER IN BUILDING AUTOMATION

Models

Model	Output signal
TRTN	0...10 V
TRTN-D	0...10 V
TRTN-420	4...20 mA

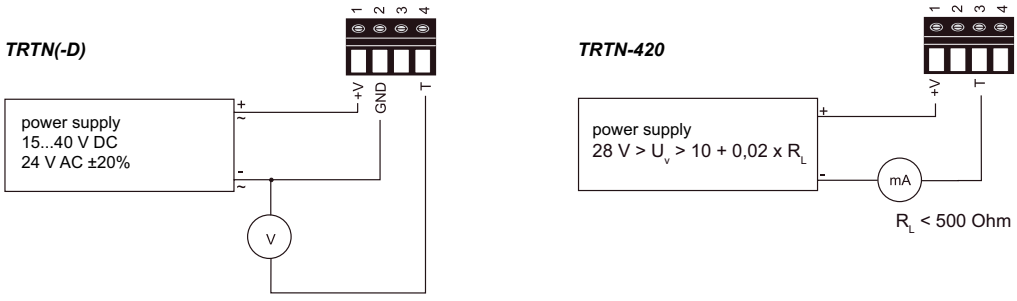
Technical data

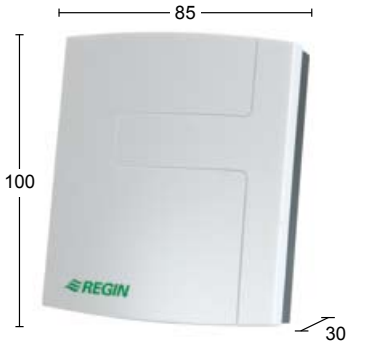
Supply voltage (U_V)	for 0...10 V	15...40 V DC / 24 V AC ±20%
	for 4...20 mA	20...28 V DC > U_V > 10 + 0.02 x R_L (R_L is the input load resistance of the connected controller. R_L must be < 500 Ohm.)
Current consumption	for DC supply	typ. 4 mA
	for AC supply	typ. 15 mA_{eff}
Electrical connection	screw terminals max. 1.5 mm^2 (AWG 16)	
Temperature ranges	working temperature	0...50°C
	storage temperature	-25...60°C
Protection class	IP30	
CE	This product conforms with the requirements of European EMC standards CENELEC EN 61000-6-1 and EN 61000-6-3.	

Temperature

Analogue output 0...50°C	0...10 V -1 mA < I_L< 1 mA, 4...20 mA (two wires), R_L< (U_V-10)/0.02 < 500 Ohm
Accuracy at 20°C and U_V=24 V DC	±0.3°C

Wiring and Dimensions





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Product documentation

Document	Type
Instruction CSTRTN	Instruction for the transmitter line