



TEMPERATURE SENSORS and TRANSMITTERS

STx Series Temperature Sensors and Transmitters

- Maintenance free PT and NTC sensing elements
- 0...10 V output with AC 24 V or DC 13.6...34 V power supply
- 4-20 mA, 2-wired output with DC 13.6...34 V power supply
- Simple and fast mounting
- Screwless cover and electrical terminals

Application

STx Series Temperature Sensors and Transmitters are for the field of applications:

- The air temperature of supply or extract air
- Duct, Immersion, Clamp-on, Indoor, Outdoor use

Type Summary

Model	Power Supply	Voltage Out	Current Out	Passive Out
STx.11	-	-	-	NTC 1.8k
STx.12	-	-	-	NTC 2.2k
STx.13	-	-	-	NTC 3k
STx.14	-	-	-	NTC 5k
STx.15	-	-	-	NTC 10k
STx.16	-	-	-	NTC 20k
STx.21	-	-	-	PT 100
STx.22	-	-	-	PT 1000
STx.23	-	-	-	Ni 1000
STx.31	24V DC	-	4-20 mA, 2W	-
STx.32	24V DC	-	4-20 mA, 3W	-
STx.41	24V AC/DC	0-10 V	-	-
STx.42	24V AC/DC	2-10 V	-	-
STx.43	24V AC/DC	0-5 V	-	-
STx.44	24V AC/DC	1-5 V	-	-

For the above chart “x” represents the mounting type which are listed below;

Model	Mounting Type
STD.xx	Duct
STI.xx	Immersion
STR.xx	Room
STC.xx	Clamp-on
STO.xx	Outdoor

Technical Data

Electrical	Power Supply	AC 24V (\pm %5), 50-60 Hz DC 13.6...34 V
	Power Consumption	< 1.5 W
Outputs	Current Output	4...20 mA, maximum 500 Ω
	Voltage Output	0...10V DC, minimum 1.000 Ω
Accuracy	NTC	0.5°C around 25°C
	PT	0.3°C around 0°C
	0-10 V	0.3°C between 0°C...50°C
	4-20 mA	0.3°C between 0°C...100°C
General Data	Sensing Element	NTC or PT
	Operating Temperature	-40 ...+125°C for NTC -50 ...+250°C for PT
	Storage Temperature	-30 ...+85°C
Ranges	0-10 V	Set at the factory upon customer's request
	4-20 mA	Set at the factory upon customer's request
Connections	Terminals	Spring clamp terminal
	Cable	maximum 2.5mm ²
	Cable Gland	M16 or PG9
	Probe Diameter	\varnothing 6 mm
Protection	IP class	IP 54
	NEMA class	3S
Standards	EMC Directive	EN 61326-1
	CE Conformity	0616CE.01
Dimensions	Housing	69.0 x 40.0 x 30.0 mm
	Probe Duct	\varnothing 6 mm x 200 mm for standard product
	Probe Immersion	\varnothing 6 mm x 100 mm for standard product
Weight Packed	Duct	87 gr
	Immersion	62 gr
	Clamp-on	67 gr
	Room	71 gr
	Outdoor	60 gr

Dimensions

