

TEC-Family Hardware Configuration

Example: TEC-1089-SV-??? → Question marks represent the Configuration

The highly sensitive object temperature measuring input can work with different temperature sensors and temperature ranges. For this, however, the hardware must be pre-configured and calibrated at the factory.

Therefore, the configuration must be defined when ordering.

Please refer to the last page of the datasheet.

Overview:

Object Temperature Configuration	Temperature sensor type	Temperature Range in °C	Input Range
PT100	PT100	-100 to +200	
PT1000	PT1000	-100 to +200	
NTC18K	Recommended NTC 10K@25°C (B ≈ 3900)	+13 to +164*	17'910 to 135 Ω
NTC39K		-3 to +130*	38'805 to 293 Ω
NTC56K (with TEC-1091)		-10 to +50* (-10 to +176*)	55'720 to 3'360 Ω (55'742 to 105 Ω)
NTC1M (with TEC-1091 or TEC-1092)		-55 to +131* (-55 to +194*)	1M to 293 Ω (1M to 73 Ω)
VIN1	See TEC Application Note – Voltage Output Temperature Sensors (-VIN1)		0.122V to 2.039V

*NTC Thermistor 10k@25°C (B ≈ 3900)

Possible Hardware Configuration:

Hardware Configuration	TEC-1089, TEC-1090, TEC-1122, TEC-1123	*TEC-1091	TEC-1092
PT100	X	X	X
PT1000	X	X	X
NTC18K	X		
NTC39K	X		
NTC56K	X	X	
NTC1M	X	X	X
VIN1	X	X	X

* TEC-1091: The additional mounting option must also be specified at the factory.

mounting options are:

- SCREW (2.5mm SCREW Terminal)
- PINHEADER (2.54 Pin Header)
- NC (no connector)