



Multi-line display shows individual and differential temperatures simultaneously

Accepts J, K, T, E, R, S, N and B thermocouple probes

Thermo Scientific Temp 300

Dual-Input Thermocouple Datalogging Thermometer



Differential temperature measurement is a breeze with the Thermo Scientific Temp 300 Thermometer. With a user-friendly interface, this dual-input thermocouple handheld allows users to navigate through setup and operation easily, even without a manual.

Temp 300 features datalogging at the touch of key, or automatically at intervals from 1 second to 60 minutes and holds up to 2000 data points. The meter also comes with a USB output for advanced data handling with your computer.

Ergonomically designed, the Temp 300 fits your palm perfectly and comes with a large backlit LCD for working in dark environments.

User-Friendly

- Easy calibration – choose one-point or two-point, calibrate channels separately or match one probe to the other

- Minimum, maximum and differential temperature view at the press of a button
- Large, easy-to-read illuminated display

Versatile

- Exclusive three-way hands-free option* – hang the meter from a pipe or belt, stick the meter to a metallic surface, or simply stand the meter on a table surface

Sturdy Design

- IP54 splashproof with sealed keypad and ABS plastic housing
- Protective rubber armor ensures a firm grip and doubles up as a table-top stand

Markets

- Industrial and Automotive
- Manufacturing
- Chemicals
- Food & Beverage

* Kit sold separately



Thermo Scientific Temp 300 Dual-Input Thermocouple Datalogging Thermometers Specifications

Range	Type J : -210 °C to 1200 °C (-346 °F to 2192 °F) Type K : -250 °C to 1372 °C (-418 °F to 2501 °F) Type T : -250 °C to 400 °C (-418 °F to 752 °F) Type E : -250 °C to 1000 °C (-418 °F to 1832 °F) Auto-ranging: 0.1/1 °C/°F ; -199.9 to 999.9 °C/°F : 0.1 °C/°F ; 1 °C/°F outside this range	Type R : 0 °C to 1768 °C (32 °F to 3214 °F) Type S : 0 °C to 1768 °C (32 °F to 3214 °F) Type N : -250 °C to 1300 °C (-418 °F to 2372 °F) Type B : 200 °C to 1800 °C (392 °F to 3272 °F)
Resolution	Auto-ranging: 0.1/1 °C/°F ; -199.9 to 999.9 °C/°F : 0.1 °C/°F ; 1 °C/°F outside this range	
Accuracy	For J, K, T, E & N : Below -150 °C (-238 °F): ±0.1 % of reading; ±0.4 °C (±1 %; ±0.7 °F) Above -150 °C (-238 °F): ±0.25 % of reading; ±1 °C (±0.25 %; ±0.7 °F) For R, S & B : ±0.1 % of reading; ±1 °C (±0.1 %; ±2 °F)	
LCD	58 x 40 mm with backlight	
Min/Max Reading	Yes	
Auto Shut-Off	17.5 min (selectable)	
Hold Function	Yes	
Stability Indicator	Yes	
Input	Two thermocouple with ANSI connector	
Power Requirements	3 'AA' 1.5 V alkaline; >750 hours (without backlight)	
Storage	-40 °C to 65 °C (-40 °F to 149 °F) ; 10 % to 90 % (non-condensing)	
Dimensions & Weight	175 x 97 x 42 mm (LxWxT), 267 g (without armor) ; 180 x 102 x 52 mm (LxWxT), 362 g (with armor)	
Ingress Protection (With Probe Attached)	IEC-529 IP54 for dust and water-resistant enclosures	
CE Compliance	EN61326-1/A1: 1998 (EU EMC Directive)	

Ordering Guide

Order Code	Part Number	Description
Meter		
TSTEMP300	01X523604	Thermo Scientific Temp 300 dual-input thermocouple datalogger with rubber armor/stand (probe not included)
Accessory		
HNDSFRKIT	01X460701	Hands-free kit for Thermo Scientific thermometers (2 magnets and a strap)
Replacement Part		
ARMORTEMP	01X460601	Rubber armor/stand for Thermo Scientific thermometers
Thermocouple Type J Probes		
ECTPLPJ01M	01X220001	Type J thermocouple probe. Shaft length: 200 mm; sensor tip: 3 mm diameter; -70 to 700 °C (for liquid measurement); cable length: 1 m
ECTPENJ01M	01X220002	Type J thermocouple probe. Shaft length: 120 mm; penetration-tip sensor: 3.2 mm diameter; -50 to 700 °C (for semi-solid measurement); cable length: 1 m
Thermocouple Type K Probes		
EC3K220	93X375601	Type K thermocouple probe. Shaft length: 200 mm; round-tip sensor: 2 mm diameter; -50 to 700 °C (for liquid/air measurement); cable length: 1.5 m
EC3K320	93X375602	Type K thermocouple probe. Shaft length: 200 mm; round-tip sensor: 3.2 mm diameter; -50 to 700 °C (for liquid/air measurement); cable length: 1.5 m
EC3K350	93X375603	Type K thermocouple probe. Shaft length: 500 mm; round-tip sensor: 3.2 mm diameter; -50 to 700 °C (for liquid/air measurement); cable length: 1.5 m
EC3K6100	93X375604	Type K thermocouple probe. Shaft length: 1000 mm; round-tip sensor: 6 mm diameter; -50 to 1000 °C (for liquid/air measurement); cable length: 1.5 m
EC3K650	93X375605	Type K thermocouple probe. Shaft length: 500 mm; round-tip sensor: 6 mm diameter; -60 to 1100 °C (for liquid/air measurement); cable length: 1.5 m
EC3K520C	93X375606	Type K thermocouple probe. Shaft length: 200 mm; flat-tip sensor: 5 mm diameter; -60 to 600 °C (for surface contact measurement); cable length: 1.5 m
EC3K1200	93X375607	Type K thermocouple probe. Shaft length: 2000 mm; exposed junction type; -50 to 400 °C; cable length: 1.5 m
Thermocouple Type T Probes		
EC3T320	93X375608	Type T thermocouple probe. Shaft length: 200 mm; round-tip sensor: 3.2 mm diameter; -50 to 350 °C (for liquid measurement); cable length: 1.5 m
EC3T415	93X375609	Type T thermocouple probe. Shaft length: 200 mm; penetration sharp-tip sensor: 4 mm diameter; -50 to 350 °C (for semi-solid measurement); cable length: 1.5 m
EC3T215	93X375610	Type T thermocouple probe. Shaft length: 150 mm; penetration sharp-tip sensor: 2 mm diameter; -50 to 350 °C (for semi-solid measurement); cable length: 1.5 m
EC3T520C	93X375611	Type T thermocouple probe. Shaft length: 200 mm; flat-tip sensor: 5 mm diameter; -50 to 350 °C (for surface contact measurement); cable length: 1.5 m
EC3T420A	93X375612	Type T thermocouple probe. Shaft length: 200 mm; sensor tip: 4 mm diameter (for air measurement); -50 to 250 °C; cable length: 1.5 m
EC3T210	93X375613	Type T thermocouple probe. Shaft length: 100 mm; penetration sharp-tip sensor: 3 mm diameter; -50 to 300 °C (for semi-solid measurement); cable and probe at 300 °C; cable length: 1.5 m

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