

THERMOCOUPLE THERMOMETER

Perfect  
Prime<sup>®</sup>

# TC0521

[www.perfectprime.com](http://www.perfectprime.com)



## Your Intelligent Choice

• Four Channels Thermocouple Thermometer support K, J, E, T, N, R, S Type, 3.35" LCD display • Internal DataLog Storage: 32,000 data logger records each channel • USB PC Interface: Real Time Monitor, Graphic, Datalog, Storage, data import / export; Mobile app iOS and Android • Fast response and sampling rate, Adjustable auto power off timer, Temperature alarm function, Instant recall function • Certificate of Traceable Calibration: Calibrated using Standards of NIST/USA) or National Measurement Laboratory R.O.C (NML/ROC). Meter Made in Taiwan



## PerfectPrime

TC0521 K, J, E, T, N, R, S  
type 4 Ch Thermocouple  
Thermometer

### Calibration Procedures

#### Before performing calibration

- 1) Calibration can only be performed when battery capacity indicator is full.
- 2) Ensure the qualified calibration equipment is ready (e.g, Fluke 5520A calibrator, Fluke ice point 9101).

#### Entering Calibration mode

- 1) Power off
- 2) Press **HOLD + °C/°F**, then press **POWER** button to turn on
- 3) LCD indicator: - - -
- 4) In 3 seconds, press **RECALL** → **SETUP** → **SMEM** to enter calibration mode
- 5) LCD T1 symbol blinking, means T1 is under calibration mode
- 6) Press ◀ or ▶ buttons to select a channel (T1, T2, T3 or T4) for calibration

#### Calibrating 2372°F (1300°C)

- 1) LCD line 1 indicator: 2372°F
- 2) LCD line 2 indicator: CAL
- 3) LCD line 3 indicator: calibration data
- 4) Input 2372°F (1300°C) to T1 from a qualified calibrator
- 5) Wait few seconds until the calibration data is stabilized, press **MEM** to save
- 6) The meter beeps once, and enters 32°F (0°C) calibration mode

#### Calibrating 32°F (0°C)

- 1) LCD line 1 indicator: 0032°F
- 2) LCD line 2 indicator: CAL
- 3) LCD line 3 indicator: calibration data
- 4) Input 32°F (0°C) to T1 from a qualified calibrator
- 5) Wait few seconds until the calibration data is stabilized, press **MEM** to save
- 6) The meter beeps once, and enters automatic calibration mode for T1

#### Automatic calibration mode

- 1) LCD line 1 indicator: T1 temperature
- 2) LCD line 2 indicator: calibration data
- 3) LCD line 3 indicator: calibration data
- 4) LCD line 4 indicator: calibration data
- 5) Wait few seconds until all calibration data is stabilized, T1 temperature should be 32.0°F, if not, tune by pressing ▲ or ▼ buttons, then press **MEM** to save
- 6) The meter beeps once, and enters calibration mode for next channel
- 7) Repeat the process from calibration at 2372°F (1300°C) for other channels

#### Exit calibration mode

- 1) Press **SET** anywhere to exit calibration mode