

HAMPSHIRE



CONTROLS

*“Safeguarding
Your Precious
Biological
Materials”*



TC-25 TEMPCHECK Rapid Response Thermometer

PRODUCT DESCRIPTION:

The TC-25 TEMPCHECK Rapid Response Thermometer is a unique digital temperature verification system for blood, red blood cells (RBC), platelets, fresh frozen plasma (stored and thawed), cryoprecipitates (cryo), and other bagged biologics. Designed for hospital or laboratory use, the noninvasive CAP-TRM42470-compliant TC-25 TEMPCHECK thermometer eliminates the need for inaccurate, slow-responding “stick-on” temperature indicators.

When bagged blood products are used for transfusion, delivered to blood banks, or removed from, or returned to, cold storage refrigerators, temperature must be verified. The bag is placed directly onto the TC-25 TEMPCHECK’s flatbed base incorporating a specially designed rapid response embedded temperature sensor. In 15-30 seconds, the bulk temperature of the bag is displayed on the easy-to-read, angled display screen.

For lightweight portability or operation during a power outage, the TC-25 TEMPCHECK Rapid Response Thermometer includes a 3.6V LiPo rechargeable battery offering more than 7½ hours of temperature display running time. When operating on battery, the TC-25 TEMPCHECK will shut down to conserve battery life after 4 minutes of inactivity. Simply press and hold the POWER/EXIT button to reactivate the temperature display. The battery automatically recharges when the TC-25 TEMPCHECK is connected to line power.

**For audio and visual
temperature alarms when
labeling or packaging
batches of bags, see the
TC-25+ TEMPCHECK.**



FEATURES:

- Non-invasive temperature verification of whole blood, red blood cells (RBC), platelets, fresh frozen plasma (FFP), cryo-precipitates (cryo), and other bagged biologics
- Rapid response time: 15 to 30 seconds
- Tightly targeted temperature range (0.0 - 40.0 °C) providing $\leq \pm 0.2\text{ }^\circ\text{C}$ accuracy
- Angled, easy-to-read back-lit display with 0.1 ° resolution
- User selectable temperature scale: °C or °F
- >7.5 hours LiPo rechargeable battery backup for easy portability
- Ships with a NIST-traceable “Certificate of Calibration”
- CAP TRM42470 compliant
- EU Declaration of Conformity

APPLICATIONS:

- Temperature verification of packaged blood bags containing whole blood, red blood cells (RBC), platelets, plasma, and cryoprecipitates (cryo)
- Temperature verification of blood bags upon delivery to blood banks
- Temperature verification of plasma and/or platelet bags in operating rooms, clinics, and blood banks
- Temperature verification of packaged biologics that have been removed from, or are to be returned to, cold storage

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TC-25 TEMPCHECK Rapid Response Thermometer

Specifications:

Temperature Sensor & Display		
Sensor	Type K rapid-response thermocouple on an insulated pad	
Temperature Response Time	15 – 30 seconds	
Display Resolution	0.1 °C or °F	
Temperature Scale	°C	°F
Temperature Range	0.0 °C to 40.0 °C	32.0 °F to 104.0 °F
Accuracy	±0.2 °C	±0.4 °F
Temperature Display	Line Power	Temperature display active when TC-25 has line power.
	Battery Power	Press and hold POWER/EXIT button to activate temperature display for four minutes.
Power	Load	Supply
Power Requirements	12 VDC, 1 A, 12 W	100-240 VAC (fluctuation <150 mV peak-to-peak), 50/60 Hz, <0.35 A RMS @ 115 VAC, UL listed
Battery Backup		
Rechargeable	1-cell, 3.6 V LiPo, battery charge regulator (BCR), >7.5 hours active use	
Mechanical		
Mounting	Sits on benchtop, 4 ea. stiff rubber insulating feet	
Dimensions, WxHxD	15.2 x 5.2 x 23.1 cm (6.0 x 2.1 x 9.1 in.)	
Weight	466 g (1.0 lb.)	
Case	ABS plastic	
Environmental Conditions		
Facilities	Intended for indoor (laboratory) use	
Altitude	Up to 2,000 meters (6,600')	
Ambient Temperature Range	15 °C to 32 °C (59 °F to 90 °F)	
Maximum Relative Humidity	60% (15 °C to 32 °C)	
Ventilation	Compliance with ANSI/ASSP Z9.5-2022 recommended.	
Pollution Degree	POLLUTION DEGREE 2: only non-conductive pollution occurs.	

One-year warranty on all Hampshire Controls products.

About Us: Established in 1975, Hampshire Controls provides standard and custom-designed electronics to the biomedical and industrial markets. In addition to the **TC-25 and TC-25+ TEMPCHECK Rapid Response Thermometers**, our product portfolio includes:

- **MPS Multi-Probe Monitor/Alarms**
- **TT-150/200** temperature & humidity Wi-Fi transmitters
- **LD-215 Liquid Nitrogen Level Detector/Alarms**
- **Air Flow Monitors** (50 to 2500 FPM)
- **STEDIVOLT SV2005 Line Voltage Controls**
- Customized OEM electronics design and manufacturing
- **T° Sentry ALERT Monitoring System** data logging
- **CO₂, LN₂ CA5000 Freezer Backup Systems**
- **T° Sentry Model 140** single probe temperature monitor/alarms
- **ADM-215 Remote Alarm Delay Modules**
- Customized monitoring, alarm notification, and logging

