



TCS 140 Low Temperature Furnace

Dry Block + Liquid Bath Multifunction Temperature Calibrator

TCS Series of Multifunction Temperature Calibrators is a temperature source to check and calibrate TCs, Resistance Thermometers, Temperature transmitters, glass thermometers, thermostats, etc.

- Simple to use
- Built to last
- Dry Block
- Liquid Stirred Bath
- Resolution 0.1°C/°F
- Multi-hole Insert
- Interchangeable Inserts
- Optional Black Body Insert 
- Range: -55°C from Tamb to 140°C
- Heating Speed: -30°C to 140°C in 15 minutes
- Cooling Speed: 140°C to 0°C in 15 minutes
- Calibration Certification Included



Accurate

Easy to use

Efficient

Fast

Quality

Reliable

Stable

Sturdy



E Instruments International

www.E-Inst.com

P:215-750-1212 F:215-750-1399 A: 172 Middletown Blvd, Ste B201 Langhorne, PA 19047



TCS Series 140 Low Temperature Furnace

Dry Block + Liquid Bath

The TCS 140 portable source offers fast temperature calibration in an easy to use design for low temperatures (-55°C to 140°C) applications.

Optional Black Body Insert
for infrared thermometers

Standard 6 Multi-hole Insert
2 x 4.5, 2 x 6.4, 1 x 8, 1 x 9.5mm

Dry Block: Depth 160mm
Liquid Well: Depth 157mm



Applications

The TCS 140 is designed to verify and calibrate temperature sensors, thermometers, and process transmitters both in the laboratory and in the field!

Range: -55° from Tamb to 140°C

Stability:
Dry Block: ±0.035°C
Liquid Bath: ±0.02°C

Radial Uniformity:
DB: ±0.02°C & LB: ±0.04°C @140°C

TCS 140 Dry Block & Liquid Bath Specifications

Range: -55°C (-67°F) from Tamb to 140°C (285°F) * Specifications subject to change *	
Absolute Stability	Dimensions (WxHxD)
Dry Block: ±0.035°C @ 140°C	340 x 300 x 170mm
Liquid Bath: ±0.02°C @ 140°C	13.4" x 11.8" x 6.7"
Radial Uniformity:	Weight:
Dry Block: ±0.02°C @ 140°C	14.0Kg (30.86 lbs)
Liquid Bath: ±0.004°C @ 140°C	
Heating Speed: -30°C to 140°C in 15 minutes	Measuring Units: °C or °F / ITS90
Cooling Speed: 140°C to 0°C in 15 minutes	Power Consumption: 2500 Watts
Stabilization Time: 10 minutes	
Block Diameter: 35mm	
Block Depth: 160mm	
Well Depth: 157mm	
Multi-hole Insert:	2 x 4.5mm (0.18"), 2 x 6.4mm (0.25"), 1 x 8mm (0.31"), 1 x 9.5mm (0.37")

Part Number. **Ordering Information**

20-8882-6 TCS 140 standard unit with 6 hole insert, liquid container, vinyl carrying case, manual, & Calibration Certificate

- 1 120V 50/60Hz US Plug
- 2 230V 50/60Hz with Schuko Plug
- 3 230V 50/60Hz with UK Plug
- 4 230V 50/60Hz with European Plug
- 5 100V 50/60Hz with USA/Japan Plug

Accessories

21-0017-6 - Stirred Liquid Bath Container

21-2273-0 - TCS 140 Black Body Insert option

21-4692-3 - TCS 140 undrilled metal block insert

21-8945-8 - Standard TCS140 Insert

EE180050 - Probe Support Kit

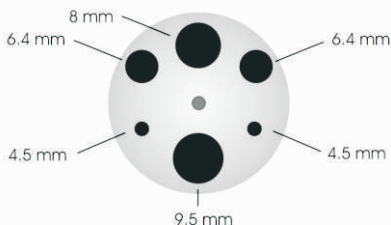
EE180057 - 500cc silicon oil -35°C to 140°C

2160 - TC S 1400°C Working Reference Standard Probe

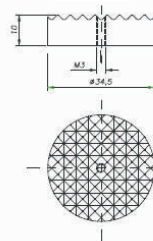
2168 - TC K 1100°C Working Reference Standard Probe

2184 - Pt100 Class A Working Reference Standard Probe

Standard Insert



21-2273-0



Optional Black Body Insert