



## Calibrate with confidence using the Tecal “Field” Range of Dri-Block Calibrators

A new range of lightweight dry-block thermal calibrators that operate from 45°C below ambient up to 650°C has been developed by Techne for convenient use in the field.

The three models in the new Tecal F range incorporate the precision control system used on Techne’s Tecal H and S models to provide excellent reliability and accuracy, with a number of improvements such as an enhanced display resolution of 0.01°C and faster heating and cooling rates.

The Tecal 140F operates between 45°C below ambient (typically -20°C) and 140°C with a temperature accuracy of  $\pm 0.3^\circ\text{C}$  and a temperature uniformity of  $\pm 0.2^\circ\text{C}$ . Heating time to 100°C is five minutes.

All the models are offered with or without RS-232 communications and can be used with a wide range of inserts to suit different probe sizes. Automatic fan cooling is standard, with accelerated cooling probes also available.

## Tecal 140F

### Technical Specification

Low temperature Portable Field Temperature Calibrator	
Minimum temperature	45°C below ambient (typically -20°C in ambient of 25°C)
Maximum temperature	140°C
Temperature accuracy	$\pm 0.3^\circ\text{C}$
Temperature uniformity	$\pm 0.2^\circ\text{C}$
Temperature stability	$\pm 0.05^\circ\text{C}$ (after 10 mins)
Display resolution	0.01°C or 0.1°F
Set point resolution	0.1°C or 0.1°F
Heating rate, 20°C to 100°C	5 minutes
Cooling rate, 100°C to 0°C	9 minutes
Large well	$\varnothing 38\text{mm} \times 114\text{mm}$ inserts
Fan cooling	Automatic
Dimensions HxWxDmm	273 x 207 x 289
Weight	11kg



See page 9 for full range of inserts available

### Options

- Inserts from standard list type FINSAL-
- RS-232 interface plus software and cable
- Carry case soft
- Carry case hard
- UKAS calibration certificate

### Ordering Information

Product Code	Model	Voltage	Hz	Watts	Net Weight (kg)
FDB140FD	Tecal 140F	230v	50/60	400	11
FDB140FP	Tecal 140F	120v	50/60	400	11
FDB140FY	Tecal 140F	100v	50/60	400	11
FDB140FR	Tecal 140F with RS-232	230v	50/60	400	11
FDB140FS	Tecal 140F with RS-232	120v	50/60	400	11
FDB140FT	Tecal 140F with RS-232	100v	50/60	400	11
<b>Accessories</b>					
FCALFCSL	Hard Carry case for 140F				8.2
FSC140F	Soft Carry case for 140 + 650F				2.3
6104266	RS-232 cable for use relevant units				0.2



140F



## Ordering Information

### Tecal 140F / 140S / 140H / 425F / 425S / 425H Inserts

Product Code	Description	Net weight kg
FINSALA	Insert 5 x 6mm probes aluminium	0.5
FINSALB	Insert 10 + 8 + 6 + 4.5 + 3mm probes aluminium	0.5
FINSALC	Insert 2 x 6mm + 2 x 10mm probes aluminium	0.5
FINSALD	Insert 2 x 6mm + 2 x 12mm probes aluminium	0.5
FINSALE	Insert 1 x 6mm probe aluminium	0.5
FINSALF	Insert 5 x 1/4" probes aluminium	0.5
FINSALG	Insert 3/8" + 5/16" + 1/4" + 3/16" + 1/8" probe aluminium	0.5
FINSALH	Insert 2 x 3/8" + 2 x 1/4" probes aluminium	0.5
FINSALI	Insert 2 x 1/2" + 2 x 1/4" probes aluminium	0.5
FINSALJ	Insert 1 x 1/4" probe aluminium	0.5
FINSALK	Insert blank aluminium	0.5
FINSALL	Insert 9/16" probe aluminium	0.5
FINSALM	Insert 5/8" probe aluminium	0.5
FINSALN	Insert 11/16" probe aluminium	0.5
FINSALO	Insert 3/4" probe aluminium	0.5
FINSALP	Insert 11 + 9 + 5 + 4 mm probes aluminium	0.5
FINSALQ	Insert 6mm probe aluminium (immersion depth 40mm)	0.5
FINSALR	Insert 6mm + 9mm probes aluminium	0.5
FINSALT	Insert 9 x 3.18mm probes aluminium	0.5
FINSALX	Aluminium insert 6 x 4mm probes	0.5
FINSALZ	Insert 20mm probe aluminium	0.5
FINSALAB	Aluminium insert 8 x 3.18mm + 1 x 6mm probes	0.5
FINSALAC	Aluminium insert 6.6mm + 19.5mm probes	0.5
FINSALAD	Aluminium insert 2x8mm / 6mm / 9mm probes	0.5
FINSALAF	Aluminium insert 6x3mm probes	0.5
FINSALAH	Aluminium insert 16mm probes	0.5
FINSALAL	Aluminium insert 2x6mm + 3x3.5mm probes	0.5
FINSALAM	Aluminium insert 4x10mm probes	0.5
FINSALAV	Aluminium insert 2x6mm + 1x12mm + 1x 15mm probes	0.5
FINSALAW	Aluminium insert 2x10mm + 2x7mm probes	0.5
FINSALAY	Aluminium insert 1x6mm + 8x1.5mm probes	0.5

### Tecal 650F / 650S / 650H Inserts

Product Code	Description	Net weight kg
FINSABA	Insert 5 x 6mm probes aluminium bronze	1.1
FINSABB	Insert 10 + 8 + 6 + 4.5 + 3mm probes aluminium bronze	1.1
FINSABC	Insert 2 x 6mm + 2 x 10mm probes aluminium bronze	1.1
FINSABD	Insert 2 x 6mm + 2 x 12mm probes aluminium bronze	1.1
FINSABE	Insert 1 x 6mm probe aluminium bronze	1.1
FINSABF	Insert 5 x 1/4" probes aluminium bronze	1.1
FINSABG	Insert 3/8" + 5/16" + 1/4" + 3/16" + 1/8" probes aluminium bronze	1.1
FINSABH	Insert 2 x 3/8" + 2 x 1/4" probes aluminium bronze	1.1
FINSABI	Insert 2 x 1/2" + 2 x 1/4" probes aluminium bronze	1.1
FINSABJ	Insert 1 x 1/4" probe aluminium bronze	1.1
FINSABK	Insert blank aluminium bronze	1.5
FINSABL	Insert 9/16" probe aluminium bronze	1.1
FINSABM	Insert 5/8" probe aluminium bronze	1.1
FINSABN	Insert 11/16" probe aluminium bronze	1.1
FINSABO	Insert 3/4" probe aluminium bronze	1.1
FINSABP	Insert 19.5mm probe aluminium bronze	1.1
FINSABQ	Insert 10/8/6/4/3mm probe aluminium bronze	1.1
FINSABR	Insert 12mm probe aluminium bronze	1.1
FINSABS	Insert 15mm probe aluminium bronze	1.1
FINSABW	Aluminium bronze insert 7 x 3.5mm probes	1.1
FINSABZ	Aluminium bronze insert 20mm probe	1.1
FINSABAD	Aluminium bronze insert 6.5/11mm / 2x16.5mm probes	1.1
FINSABAE	Aluminium bronze insert 6/10mm / 2x13mm probes	1.1
FINSABAI	Aluminium bronze insert 2x1/4" + 6mm + 3mm probes	1.1
FINSABAJ	Aluminium bronze insert 10+8+6.5+6mm probes	1.1
FINSABAN	Aluminium bronze insert 33 probe	1.0
FINSABAO	Aluminium bronze insert 9x3mm probes	1.1