

Tecal 650F

Operating up to 650°C, the Tecal 650F has been designed for high-temperature calibration. Temperature accuracy is $\pm 0.4^\circ\text{C}$ and uniformity within $\pm 1^\circ\text{C}$ throughout the temperature range.

Technical Specification

High temperature Portable Field Temperature Calibrator

Minimum temperature	25°C above ambient
Maximum temperature	650°C
Temperature accuracy	$\pm 0.4^\circ\text{C}$
Temperature uniformity	$\pm 1^\circ\text{C}$
Temperature stability	$\pm 0.09^\circ\text{C}$ (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 600°C	24 minutes
Cooling rate, 600°C to 200°C	21 minutes
Large well	$\varnothing 38\text{mm} \times 152\text{mm}$ inserts.
Fan cooling	Automatic
Dimensions H x W x D mm	278 x 170 x 300
Weight	9.6 kg

 See page 9 for full range of inserts available

Options

- Inserts from standard list type FINSAB-
- RS-232 interface plus software and cable
- Cooling probe for rapid cooling of block
- Carry case soft
- Carry case hard
- UKAS calibration certificate

Ordering Information

Product Code	Model	Voltage	Hz	Watts	Net Weight (kg)
FDB650FD	Tecal 650F	230v	50/60	1100	9.6
FDB650FP	Tecal 650F	120v	50/60	1100	9.6
FDB650FY	Tecal 650F	100v	50/60	790	9.6
FDB650FR	Tecal 650F with RS-232	230v	50/60	1100	9.6
FDB650FS	Tecal 650F with RS-232	120v	50/60	1100	9.6
FDB650FT	Tecal 650F with RS-232	100v	50/60	790	9.6

The Cooling Probe can be used to rapidly cool the insert – chilled water passes through the probe that fits inserts with 10mm \varnothing hole or larger.

Accessories

Product Code	Model	Net Weight (kg)
FDB00CP	Cooling Probe for 425,650,700X	0.4kg
FCALFCSH	Hard Carry case for 650F	8.2kg
FSC140F	Soft Carry case for 140 + 650F	2.3kg
6104266	RS-232 cable for use relevant units	0.2kg



650F



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