

TP 3M 165 E2

Type TP 3M 165 E2



Scope of delivery

- Test certificate
- Mains cable
- Insert exchange tool
- PC- and network cable
- Operating manual
- Sensor basket, suction pump, transport cover
- Magnetic stirrer with magnet lifter
- Sensor lid with 5 silicone plugs

Accessories

- calibration liquid
- Transport case
- Adapter sleeve
- Tube insert
- Infrared calibration sleeve
- Surface calibration sleeve
- External reference sensor TF 255-3-300
- PC software
- Network-switch, barcode-reader, WLAN-router
- DAkkS certificate
- Works certificate

Technical data

Type	TP 3M 165 E2	
Control sensor	Switchable internal / external	
Micro Bath		
Temperature range*	-35...165 °C	-31...329 °F
Accuracy	±0.1 °C	±0.18 °F
Stability	±0.010 °C	±0,018 °F
Measurement zone	110...150 mm	4.33...5.91 in.
Dry block		
Temperature range*	-35...165 °C	-31...329 °F
Accuracy	±0.3 °C	±0.54 °F
Stability	±0.010 °C	±0,018 °F
Measurement zone	123...163 mm	4.84...6.42 in.
Infrared		
Temperature range*	-35...165 °C	-31...329 °F
Accuracy	±0.5 °C	±0.9 °F
Stability	±0.010 °C	±0,018 °F
Measurement zone	110 mm	4.33 in.
Surface		
Temperature range*	-25...150 °C	-13...302 °F
Accuracy	±1 °C	±1.8 °F
Stability	±0.1 °C	±0.18 °F
Measurement zone	Surface	
Block dimensions		
→ Diameter	Ø 60 mm	Ø 2.36 in.
→ Depth	170 mm	6.69 in.
Display unit		
Display	Brilliant Color-Touchscreen (7") Viewing angle 120...140° Brightness 400 cd / m ² Unit °C / °F / K	
Display range	-50...165 °C	-58...329 °F
Resolution	0.1/0.01/0.001 °C / °F / K	
General data		
Interface	Ethernet 3 x USB	
Dimensions	→ Width 210 mm 8.27 in → Height 380 + 50 mm 14.96 + 1.97 in → Depth 300 mm 11.81 in	
Weight	Approx. 13 kg	Approx. 28.66 lbs.
Power supply	100...240 VAC, 50 / 60 Hz	
Power consumption	Approx. 375 W	

* At an ambient temperature of 20 °C / 68 °F

TP 37 166 E

Type TP 37 166 E



Scope of delivery

- Test certificate
- Mains cable
- Insert exchange tool
- PC- and network cable
- Operating manual

Accessories

- Transport case
- Adapter sleeve
- Infrared calibration sleeve
- Surface calibration sleeve
- External reference sensor TF 255-3-300
- PC software
- Network-switch, barcode-reader, WLAN-router
- DAkkS certificate
- Works certificate

Technical data		
Type	TP 37 166 E	
Control sensor	Switchable internal / external	
Dry block		
Temperature range*	-35...165 °C	-31...329 °F
Tolerance	±0.2 °C	±0.36 °F
Stability	±0.05 °C	±0.09 °F
Measurement zone	110...150 mm	4.33... 5.91 in.
Infrared		
Temperature range*	-35...165 °C	-31...329 °F
Tolerance	±0.5 °C	±0.9 °F
Stability	±0.05 °C	±0.09 °F
Measurement zone	110 mm	4.33 in.
Surface		
Temperature range*	-25...150 °C	-13...302 °F
Tolerance	±1 °C	±1.8 °F
Stability	±0.2 °C	±0.36 °F
Measurement zone	Surface	
Block dimensions		
→ Diameter	Ø 60 mm	Ø 2.36 in.
→ Depth	150 mm	5.91 in.
Display unit		
Display	Brilliant Color-Touchscreen (7") Viewing angle 120...140° Brightness 400 cd / m ² Unit °C / °F / K	
Display range	-50...165 °C	-58...329 °F
Resolution	0.1 / 0.01 / 0.001 °C / °F / K	
General data		
Interface	Ethernet 3 x USB	
Dimensions		
→ Width	210 mm	8.27 in
→ Height	380 + 50 mm	14.96 + 1.97 in
→ Depth	300 mm	11.81 in
Weight	Approx. 13 kg	Approx. 28.66 lbs.
Power supply	100...240 VAC, 50 / 60 Hz	
Power consumption	Approx. 375 W	

* At an ambient temperature of 20 °C / 68 °F



The Typ TP 37 166 E temperature calibrator model has a very large calibration volume.

TP 3M 255 E

Type TP 3M 255 E



Scope of delivery

- Test certificate
- Mains cable
- Insert exchange tool
- PC- and network cable
- Operating manual
- Sensor basket, suction pump, transport cover
- Magnetic stirrer with magnet lifter
- Sensor lid with 5 silicone plugs

Accessories

- calibration liquid
- Transport case
- Adapter sleeve
- Tube insert
- Infrared calibration sleeve
- Surface calibration sleeve
- External reference sensor TF 255-3-300
- PC software
- Network-switch, barcode-reader, WLAN-router
- DAkkS certificate
- Works certificate

Technical data

Type	TP 3M 255 E	
Control sensor	Switchable internal / external	
Micro Bath		
Temperature range*	RT...255 °C	RT...491 °F
Tolerance	±0.2 °C	±0.18 °F
Stability	±0.05 °C	±0.09 °F
Measurement zone	110...150 mm	4.33...5.91 in.
Dry block		
Temperature range*	RT...255 °C	RT...491 °F
Tolerance	±0.3 °C	±0.54 °F
Stability	±0.05 °C	±0.09 °F
Measurement zone	123...163 mm	4.84...6.42 in.
Infrared		
Temperature range*	RT...255 °C	RT...491 °F
Tolerance	±0.5 °C	±0.9 °F
Stability	±0.05 °C	±0.09 °F
Measurement zone	110 mm	4.33 in.
Surface		
Temperature range*	RT...200 °C	RT...392 °F
Tolerance	±1 °C	±1.8 °F
Stability	±0.2 °C	±0.36 °F
Measurement zone	Surface	
Block dimensions		
→ Diameter	Ø 60 mm	Ø 2.36 in.
→ Depth	170 mm	6.69 in.
Display unit		
Display	Brilliant Color-Touchscreen (7") Viewing angle 120...140° Brightness 400 cd / m ² Unit °C / °F / K	
Display range	0...255 °C	32...491 °F
Resolution	0.1 / 0.01 / 0.001 °C / °F / K	
General data		
Interface	Ethernet 3 x USB	
Dimensions	→ Width 210 mm 8.27 in → Height 380 + 50 mm 14.96 + 1.97 in → Depth 300 mm 11.81 in	
Weight	Approx. 8.5 kg	18.74 lbs.
Power supply	100...240 VAC, 50 / 60 Hz	
Power consumption	Approx. 1000 W	

* At an ambient temperature of 20 °C / 68 °F