


TP 3M165E.2
**BEST
SELLER**

TP 3M165E.2 Stainless steel case
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Type	Highlights	Order code
TP 3M165E.2	Patented control technology - time saving up to 50% High calibration volume Fastest stabilisation times on the market Patented touchscreen function Management of device under test with barcode scanner (Accessories) Optional with stainless steel case (for pharmaceutical and food industry)	EP3M1626015U3 XE2102 EP3M1626015U3SS

Technical data

Type	TP 3M165E.2	TP 3M255E
Control sensor	(internal / external)	
Hysteresis	±0.25 °C / ±0.025 °C (internal / external)	
Temperature range*	-35...165 °C -25...150 °C (at surface calibration)	RT...255 °C RT...200 °C (at surface calibration)
Micro calibration bath		
Accuracy	±0.1 °C	±0.2 °C
Stability	±0.010 °C / ±0.005 °C (internal / external)	±0.05 °C (internal)
Measurement zone	110...150 mm	
Dry block		
Accuracy	±0.3 °C	±0.3 °C
Stability	±0.010 °C / ±0.005 °C (internal / external)	±0.05 °C (internal)
Measurement zone	123...163 mm	
Infrared		
Accuracy	±0.5 °C	±0.5 °C
Stability	±0.020 °C / ±0.020 °C (internal / external)	±0.05 °C (internal)
Measurement zone	110 mm	
Surface		
Accuracy	±1 °C	±1 °C
Stability	±0.150 °C (external)	±0.2 °C (external)
Measurement zone	Surface	

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

Transition times*	TP 3M165E.2	TP 3M255E
Cooling time → RT...-30 °C**	40 min (Dry block) 65 min (Micro calibration bath)	
→ Tmax...RT	24 min (Dry block) 25 min (Micro calibration bath)	105 min (Dry block) 78 min (Micro calibration bath)
Heating time → RT...Tmax	32 min (Dry block) 50 min (Micro calibration bath)	23 min (Dry block) 105 min (Micro calibration bath)
→ -35 °C...165 °C	37 min (Dry block) 56 min (Micro calibration bath)	
Stabilisation time		
With ext. reference → to ±0.05 °C → to ±0.005 °C	From 5 min From 10 min	

General data		
Type	TP 3M165E.2	TP 3M255E
Interface	Ethernet, 3 x USB	
Calibrator dimensions → Width → Height → Depth	210 mm 380 + 50 mm 300 mm	
Block dimensions → Diameter → Depth	Ø 60 mm 170 mm	
Weight	Approx. 13 kg	Approx. 8,5 kg
Power supply	100...240 VAC, 50 / 60 Hz	
Power consumption	Approx. 375 W	Approx. 1000 W
Display unit		
Display	Brilliant Color-Touchscreen (7"), multi panel safety glass, viewing angle 120...140° Brightness 400 cd / m ² , Unit °C / °F / K	
Display range	-50...165 °C	0...255 °C
Resolution	0.1 / 0.01 / 0.001 °C / °F / K	

* Further information on transition times on request, all data refer to tests with new devices

** Cooling time to Tmin (-35 °C) differs

Order code					
Type	TP 3M165E.2	TP 3M255E			
Internal measuring instrument					
→ Without	EP3M16026015U3	EP3M250E6015U3			
→ With	EP3M16M26015U3				
<i>Equipment for requested type with separate order code</i>					
Equipment	Example → EPLIK	DB	I	00	0
Linearisation					
With Linearisation	EPLIK				
Function					
Dry block		DB			
Micro calibration bath		LI			
Tub insert		TI			
Infrared		IR			
Surface*		SU			
Reference sensor					
Internal			I		
External			E		
Adjustment to medium					
No medium**				00	
Water (2...95 °C)				01	
Silicone oil 10 cSt (-35...155 °C)				10	
Silicone oil 20 cSt (7...220 °C)				20	
Silicone oil 50 cSt (50...270 °C)				50	
Customised medium				99	
Test points					
Standard					0
Customised					K

* Only with ext. reference sensor

** No medium = Dry block, infrared, surface

