








Various models of Infrared Laser Thermometers

Model no.	BP5F Food Thermometer with Probe	BP05 Infrared Thermometer	BP10 Infrared Thermometer	BP15 Infrared Thermometer	BP25 Dew Point scanner	TP7 Infrared Thermometer	TP10 Infrared Thermometer
							
TECHNICAL DATA							
Temperature measurement range [°C]	-40 to 250	-35 to 230	-30 to 270	-30 to 260	-50 to 260	-50 to 1000	-50 to 1850
Optics							
Optical resolution	20:1	1:1	6:1	8:1	20:1	30:1	75:1
Smallest measuring spot		10 mm (distance 10 mm)		25 mm (distance 200 mm)		25,4 mm @ 762 mm	18mm @ 1,350 mm
Temperature sensor infrared [°C]							
Min. measuring range	-40	-35	-30	-30	-50	-50	-50
Max. measuring range	280	230	270	260	260	1.000	1.850
Accuracy, max.		± 2 % / ± 2	± 2 % / ± 2	± 2 % / ± 2			
Accuracy < -4 °C	± 2						
Accuracy -4 °C to 65 °C	± 1						
Accuracy > 65 °C	± 1,5						
Accuracy < 20 °C					± 3,5		
Accuracy = 20 °C					1 % ± 1,5		
Accuracy @ -50 °C to 20 °C (-58 °F to 68 °F)					1 % ± 1,5	± 2,5	± 3,0 (5,4)
Accuracy @ 21 °C to 300 °C						± 1	
Accuracy @ 301 °C to 1,000 °C						± 1,5	
Accuracy @ 21 °C to 400 °C							
Accuracy @ 401 °C to 800 °C							
Accuracy @ 800 °C to 1,600 °C							
Repeatability at -50 °C to 20 °C						± 1,3	± 1,5 (2,7)

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TECHNICAL DATA							
Repeatability at 21 °C to 1,000 °C						± 0,8 oder ± 0,5	
Repeatability at 21 °C to 1,200 °C							
Repeatability at 1,201 °C to 1,600 °C							
Accuracy @ 20 °C to 500 °C (68 °F to 932 °F)							±1,0 % ±1,0 (1.8)
Accuracy @ 500 °C to 1,000 °C (932 °F to 1,832 °F)							±1,5 %
Accuracy @ 1,000 °C to 1,850 °C (1832 °F to 3,362 °F)							±2,0 %
Repeatability at 20 °C to 1,000 °C (68 °F to 1,832 °F)							±0,5 % ±0,5 (0.9)
Repeatability at 1,000 °C to 1,850 °C (1832 °F to 3,362 °F)							±1.0 %
Temperature sensor infrared [°F]							
Min. measuring range	-40			-22		-58	
Max. measuring range	536			+500		1.832	
Accuracy, min.	< - 4°C: ± 2 °C; -4 °C					4,5 (± 1 % vom Messwert)	
Accuracy, max.	65 °C: ± 1 °C; > 65 °C: ± 1,5 %			± 2 % / ± 4		± 1 % from the measured value	
Integrated temperature sensor [°C]							
Min. measuring range	-40				0		
Max. measuring range	200				50		
Accuracy, min.					± 1,5		
Accuracy, max.					± 1,0 (10 - 40 °C)		
Integrated temperature sensor [°F]							
Min. measuring range	-40				32		
Max. measuring range	392				122		








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TECHNICAL DATA							
Accuracy < 23 °F to 150 °F	< 65 °C: ± 1 °C, > 65 °C: ± 1 %						
Accuracy > 150 °F							
Dew point temperature [°C]							
Min. measuring range					-30		
Max. measuring range					100		
Accuracy					± 2,0		
Humidity [%]							
Min. measuring range					0		
Max. measuring range					100		
Accuracy					± 3,5 (20 - 80)		
Surrounding conditions							
Operation – min. temperature [°C]	0	0	0	0		0	0
Operation – max. temperature [°C]	50	50	50	50		50	50
Operation – min. relative humidity [%]				10		10	10
Operation – max. relative humidity (non-condensing) [%]	80	80	80	90		90	90
Storage – min. temperature [°C]	-20	-20	-20	-20		-10	-10
Storage – max. temperature [°C]	60	60	60	60		60	60
Storage – max. relative humidity (non-condensing) [%]	<80	<80	<80	<80		<80	<80
Temperature sensor							
Reaction time	< 500 ms	< 1 s	< 1 s	< 1 s	< 150 ms	< 150 ms	150 ms
Spectral sensitivity				8 - 14 µm	8 - 14 µm	8 ~ 14 µm	8 ~ 14 µm
Laser (target display)							
Class						Class 2	Klasse 2 (II)
Wavelength [nm]						630 ~ 670	630 ~ 670

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TECHNICAL DATA							
Power [mW]						< 1	< 1
Power supply							
Internal (battery)	9 V-Blockbatterie	1 x LR44 (1,5 V)	2 x 1,5 V-AAA	9V block battery	9V - Blockbatterie	9V block battery	9V block battery
External (USB)							
Weight (packing excluded)							
Weight [kg]	0,180	0,033	0,082	0,130	0,163	0,163	0,350
Dimensions (packing excluded)							
Length [mm]	185	20	57	35	82	104	168
Width [mm]	50	90	25	131	58	43	56
Height [mm]	67	20	96	96	168	146	225

Manufacturer : Trotec, Germany**Vacker Group**PO Box 92438, Deira, Dubai, **United Arab Emirates**

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