

Pyrometers TP7 and TP10

Versatile precision infrared thermometers
for professional applications



Technical data		Pyrometer TP7	Pyrometer TP10	Trotac
Article no.		3.510.003.011	3.510.003.045	
Optics	Optical resolution (D:S)	30:1	75:1	Temperature
	Smallest measuring spot	25.4 mm @ 762 mm	18 mm @ 1,350 mm	
Infrared temperature sensor	Measuring range	-50 °C to +1,000 °C	-50 °C to + 1,850 °C	
	Accuracy*	± 2.5 °C at -50 °C to 20 °C; ± 1 % at 21 °C to 300 °C; ± 1.5 % at 301 °C to 1,000 °C	± 3 °C at -50 °C to 20 °C; ± 1 % / ± 1 °C at 20 °C to 500 °C; ± 1.5 % / °C at 500 °C to 1,000 °C; ± 2 % at 1,000 °C to 1,850 °C	
	Repeatability	± 1.3 °C at -50 °C to 20 °C; ± 0.8 % or ± 0.5 °C at 21 °C to 1,000 °C	± 1.5 °C at -50 °C to 20 °C; ± 0.5 % or ± 0.5 °C at 20 °C to 1,000 °C; ± 1 % at 1,000 °C to 1,850 °C	
	Reaction time	< 150 ms	< 150 ms	Multi-function
	Spectral sensitivity	8 ~14 µm	8 ~14 µm	
Laser (target display)	Laser class	Class 2 (II),	Class 2 (II)	Climate
	Wavelength	630 ~ 670 nm	630 ~ 670 nm	
	Power	< 1 mW	< 1 mW	
Display	LCD, monochrome	■	■	Moisture
Contact temperature sensor	Measuring range	—	-50 °C to + 300 °C	
	Accuracy	—	± 1.5 % ± 3 °C	
	Repeatability	—	± 1.5 %	Data loggers
surrounding conditions	Operation	0 °C to 50 °C, 10 % to 90 % RH	0 °C to 50 °C, 10 % to 90 % RH	
	Storage	-10 °C to 60 °C, < 80 % RH**	-10 °C to 60 °C, < 80 % RH**	
Power supply	Internal	9 V IEC 6LR61	9 V IEC 6LR61	Data loggers
	External	—	via USB	

Functions and equipment	Connectable dual laser	■	■	Software
	Switching function for temperature measuring units °C/°F	■	■	
	Display resolution 0.1°C	■	■	
	Non-stop measuring function	■	■	Emission
	Minimum value display	—	■	
	Maximum value display	■	■	
	Differential value display	—	■	
	Average value display	—	■	Air Flow
	Display value hold function	■	■	
	Alarm function with user-defined limit values	■	■	
	Degree of emission adjustable from 0.1 to 1.0	■	■	Optical Inspection
	Backlit LCD monitor	■	■	
	Automatic switch-off	■	■	
	Maximum value indication	—	■	Leak detection
	Open targeting sights	—	■	
	Storable measured values	—	100	
	Additional contact temperature measurement	—	with external type K sensor	
	Software-supported recording of measurement series	—	■	Tracing and detection
	USB connection	—	■	
	1/4-inch tripod thread - 20 UNC	—	■	
Physical characteristics	Dimensions (L x W x H mm)	104 x 43 x 146 mm	168 x 56 x 225 mm	Planning and survey
	Weight	163 g	350 g	
	Housing	Plastic	Plastic	
Scope of delivery	Standard	Pyrometer TP7, storage bag, 9 V battery, operating manual	Pyrometer TP10, carrying case, type K contact sensor, mini tripod, USB connecting cable, 9 V battery, software, operating manual	

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