

More Precision

thermoMETER // Non-contact IR temperature sensors



36 Temperature sensor for measurement of plastics

thermoMETER CTP-7



thermoMETER CTP-7

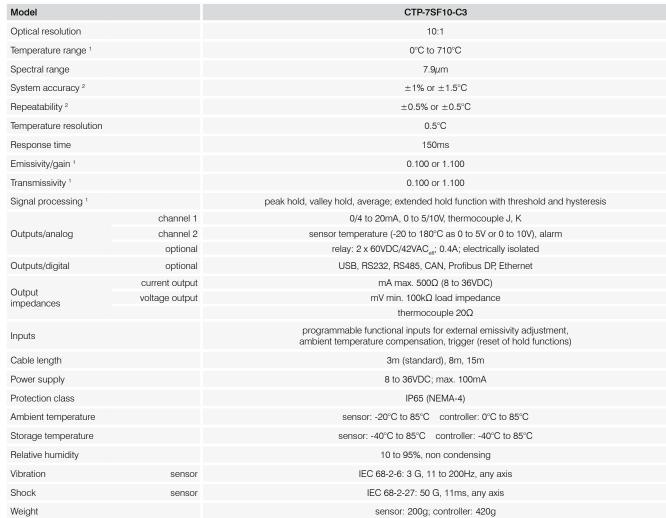
Exact temperature measurement of thin plastic film made from PES, PU, PTFE, PA

- Robust and applicable without cooling up to 85 °C ambient temperature
- Elimination of transmissivity using a polymer-specific absorption band
- Separate controller with easy accessible programming keys and backlit display
- Selectable analog outputs 0/4-20mA, 0-5V, 0-10V, thermocouple type K or J
- Optional USB, RS485, RS232 interface, relay outputs (2x electrically isolated), CAN, Profibus DP, Ethernet

Optical specifications thermoMETER CTP-7

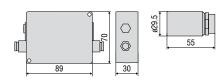
■ = smallest spot size (mm)

Standard Focus										
SF10	10:1	7	10	20	30	40	50	60	70	80
	distance (mm)	0	100	200	300	400	500	600	700	800
Close Focus (with optionally available CF lens)										
CF10	10:1	7	5	1.2	8	16	24			
	distance (mm)	0	5	10	15	20	25			



¹ adjustable via programming keys or software

 2 at ambient temperature: 23 $\pm5^{\circ}\text{C};$ whichever is greater



Product identification

CTP-	7	SF10-	C3				
			Cable len	gth [3m (standard) / 8m / 15m]			
		Focus [SF10]					
Spectral range [7.9µm]							
thermoMETER CTP							

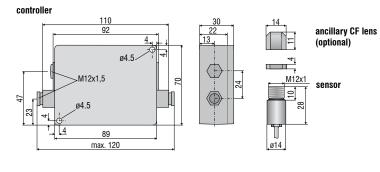
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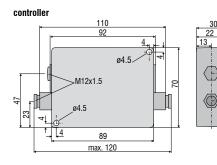
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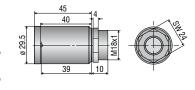
CT / CTfast / CTM1/M2/M3



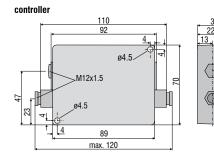
CThot / CTP-3 / CTP-7

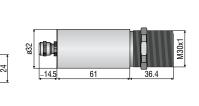






CTM3-XL

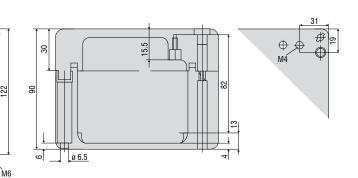




sensor

CTex

95 106 65.5 113 122



Mechanic	al accessories		Optical a	ccessories	
Art. No.	Model		Art. No.	Model	
2970203	TM-FB-CT	Mounting bracket, fixed	2970201	TM-CF-CT	Ancillary CF lens (only for SF models)
		Mounting bracket, adjustable in one axis,	2970202	TM-PW-CT	Protective window (only for SF models)
2970325	TM-FB2-CT	for simultaneous assembly of CT sensor and laser sighting aid	2970297	TM-CFAG-CT	Ancillary lens with external thread
2970336	TM-FBMH-CT	Mounting bracket, adjustable in one axis,	2970330	TM-CFH-CT	Ancillary lens for M1/M2/M3/M5 sensors
2970204	TM-AB-CT	for massive housing Mounting bracket, adjustable in 2 axes	2970331	TM-CFHAG-CT	Ancillary lens with external thread for M1/M2/M3/M5 sensors
2970205	TM-MB-CT	Mounting bolts with M12x1 thread	2970299	TM-PWAG-CT	Protective window with external thread
2970206	TM-MG-CT	Mounting fork, adjustable in 2 axes,	2970332	TM-PWH-CT	Protective window for M1/M2/M3/M5 sensors
		with M12x1 fastening	2970333	TM-PWHAG-CT	Protective window with external thread
2970207	TM-AP-CT	Air purge collar for sensors from 10:1 lens Air purge collar fro sensors from 10:1 lens	2370000		for M1/M2/M3/M5 sensors
2970335	TM-APS-CT	made from stainless steel	Interface	s	
2970208	TM-AP2-CT	Air purge collar for sensor with 2:1 lens	0070000	TM-USBK-CT	USB interface kit: USB interface, USB cable, Software CompactConnect, second cable gland for controller
2970209	TM-APL-CT	Air purge collar, laminar	2970223		
2970210	TM-APLCF-CT	Air purge collar, laminar with integrated ancillary CF lens	2970224	TM-RS232K-CT	RS232 interface: RS232 interface, computer cable, software CompactConnect,
2970357	TM-APLCFH-CT	Air purge collar, laminar with integrated ancillary CF lens for M1/M2/M3/M5 sensors			second cable gland for controller
2970386	TM-APMH-CT	Air purge collar made from stainless steel for massive housing	2970338	TM-RS485USBK- CTL	RS485-USB-adapter, incl. PC cable, software CompactConnect and CTmulti, second cable gland for use with interface board TM-RS485B-CT
2970211	TM-RAM-CT	Right angle mirror for measurements 90° to the sensor axis	2970226	TM-RS485B-CT	RS485 interface board incl.
2970212	TM-RAIL-CT	Rail mount adapter for CT controller			second cable gland CAN-Bus interface for thermoMETER CT/
2970213	TM-COV-CT	Closed cover for controller	2970227	TM-CANK-CT	protocol: CANopen presettings:
2970214	TM-MHS-CT	Massive housing made from stainless steel			module address 20 (14H), 250kBaud, 0-60°C Profibus-DPv1 interface for thermoMETER CT
2970215	TM-MHSCF-CT	Massive housing made from stainless steel with integrated ancillary CF lens	2970228	TM-PFBDPK-CT	with plug-in connection
2970358	TM-MHSCFH-CT	Massive housing made from stainless steel with integrated ancillary CF lens for M1/M2/M3/M5 sensors	2970229	TM-ETHNK-CT	Ethernet-Kit: interface board, external Ethernet adapter, software CompactConnect
2970216	TM-MHA-CT	Massive housing made from anodized aluminum	2970230	TM-RI-CT	Relay interface: Two electrically isolated relays, 60VDC/ 42VAC _{RMS} , 0.4A
2070217	TM-MHACF-CT	Massive housing made from anodized aluminum	Calibrati		
2310211		with integrated ancillary CF lens		TM-CERT-CT	Certificate of calibration
2970359	TM-MHACFH-CT	Massive housing made from anodized aluminum with integrated ancillary CF lens for M1/M2/M3/M5 sensors		TM-HTCERT-CT	Certificate of calibration for CTM sensors
2970218	TM-MHB-CT	Massive housing made from brass	СТМЗ-ХІ		
2970219	TM-MHBCF-CT	Massive housing made from brass	_	- TM-FBXL-CT	Mounting bracket, adjustable in one axis
		with integrated ancillary CF lens Massive housing made from brass with integrated		TM-ABXL-CT	Mounting bracket, adjustable in 2 axes
2970360	TM-MHBCFH-CT	ancillary CF lens for M1/M2/M3/M5 sensors		TM-APXL-CT	Air purge collar, stainless steel
2970220	TM-PT-CT	Protective tube made from brass		TM-XLCERT-CT	Certificate of calibration
2970326	TM-PA-CT	Pipe adapter for the mounting of reflection protection tubes	2070001	IN ALCENT OF	
2970327	TM-ST20-CT	Reflection protection tube; length 20mm			
2970328	TM-ST40-CT	Reflection protection tube; length 40mm			
2970329	TM-ST88-CT	Reflection protection tub; length 88mm			
2970221	TM-LST-CT	Laser sighting aid for CT sensors incl. batteries (2xAlkaline AA)			
2970300	TM-LSTOEM-CT	OEM laser sighting aid, 635nm, 3.5m cable, for connection to CT controller			
2970300. 008	TM-LSTOEM- CT(008)	OEM laser sighting aid, 635nm, 8m cable, for connection to CT controller			
2970222	TM-EX-CT	Accessories kit for using CT in Ex areas (Zone 1: PTB 01 ATEX 2053/ E II (1/2) G [EEx ia/ib] IIC/IIB), pre-assembled EX box, without Zener barriers, applicable in combination with CT sensors (except for CTfast)			

TM-FB-CT Mounting bracket, adjustable in one axis

TM-AB-CT Mounting bracket, adjustable in two axes

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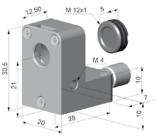
TM-CF-CT Ancillary CF lens (only for SF models)



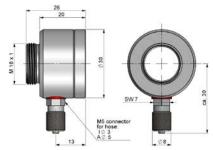
TM-CFAG-CT Ancillary CF lens with external thread TM-PWAG-CT Protective window with external thread



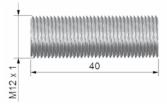
TM-APL-CT Air purge collar, laminar and TM-MG-CT Mounting fork



TM-APLCF-CT Ancillary CF lens/protective window - integrable variant for laminar air purge collar



TM-APMH-CT Air purge collar made from stainless steel for massive housing











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Ø20 14

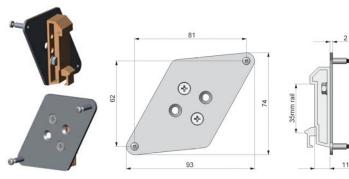
TM-MB-CT Mounting bolt with M12x1 thread

M 12x1

adjustable in one axis

3,20

TM-MG-CT Mounting fork with M12x1 thread, adjustable in two axes



TM-RAIL-CT Rail mount adapter for controller





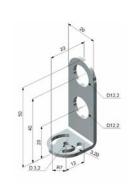
TM-PA-CT Pipe adapter for reflection protection tube







TM-LST-CT Laser sighting aid, battery-operated (2x Alkaline AA), for alignment of CT sensors (dimensions identical to CT sensor)

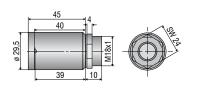


TM-FB2-CT Mounting bracket for sensor and laser sighting aid





TM-MHS-CT Massive housing, stainless steel TM-MHA-CT Massive housing, aluminum TM-MHB-CT Massive housing, brass

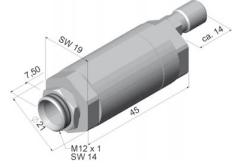




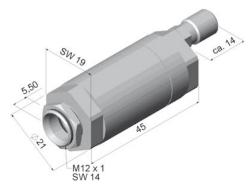
TM-TAS-CT Pivoted joint for CT sensors



Dirt and deposit on the lens like smoke, steam and high air humidity (condensation) are avoided or reduced by using an air purge collar.



TM-AP-CT Standard air purge collar for 10:1 / 15:1 / 22:1 lenses



TM-AP2-CT Standard air purge collar for 2:1 lens

Further IR temperature measurement devices from Micro-Epsilon



thermoIMAGER TIM Compact USB thermal imaging cameras for precise thermography



thermoMETER CTVideo/CSVideo IR temperature sensors with crosshair laser sighting and video output



thermoMETER Handheld Innovative handheld pyrometer with laser sighting for inspection and maintenance



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