



## SCIGATE AUTOMATION (S) PTE LTD

 Bukit Batok Street 22 #01-01 Singapore 659592

 Tel: (65) 6561 0488
 Fax: (65) 6561 0588

 Email: sales@scigate.com.sg
 Web: https://scigate.com.sg/

Business Hours: Monday - Friday 8:30AM - 6:15PM

# More Precision

## thermoMETER // Non-contact infrared temperature sensors



#### thermoMETER CTP-3



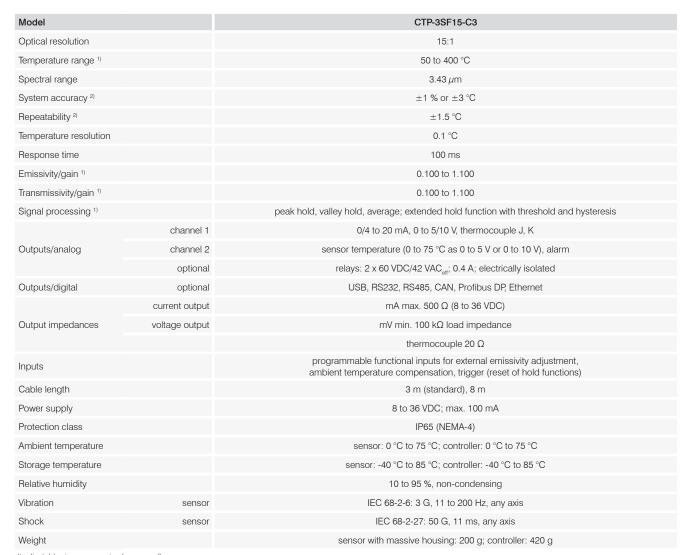
#### thermoMETER CTP-3

Exact temperature measurement of thin plastic film made from PE, PP, PS

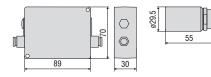
- Measuring range from 50 °C to 400 °C
- Robust and applicable without cooling in ambient temperatures up to 75 °C
- Transmissivity elimination due to polymer specific absorption band
- Separate controller with easy accessible programming keys and backlit LCD
- Selectable analog outputs 0/4-20 mA, 0-5 V, 0-10 V, thermocouple type K or J
- Optional USB, RS485, RS232 interface, relay outputs (2x electrically isolated), CAN bus, Profibus DP, Ethernet

## Optical specifications thermoMETER CTP-3

Standard Focus										
SF15	15:1	6.5	11.6	16.6	21.7	26.7	35	43.3	51.6	59.9
	distance in mm	0	100	200	300	400	500	600	700	800



 $^{\rm 1)}$  adjustable via programming keys or software  $^{\rm 2)}$  ambient temperature: 23  $\pm5$  °C; whichever is greater



#### Product identification

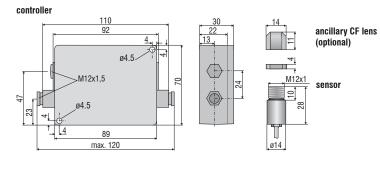
CTP-	3	SF15-	C3			
			Cable len	gth [3 m (standard) / 8 m		
		Focus [SF15]				
	Spectral range [3.43 µm]					
thermol	METER CTR	0				

thermoMETER

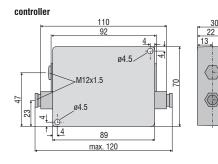
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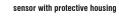
#### thermoMETER

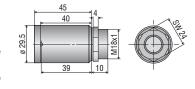
#### CT / CTfast / CTM1/M2/M3



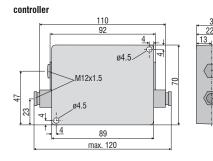
CThot / CTP-3 / CTP-7

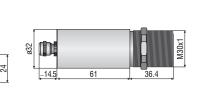






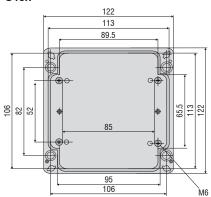
CTM3-XL

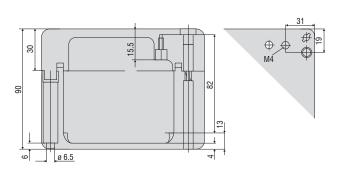




sensor

CTex





Mechanical accessories

#### Art. No. Model TM-FB-CT 2970203 Mounting bracket, fixed Mounting bracket, adjustable in one axis, 2970325 TM-FB2-CT for simultaneous assembly of CT sensor and laser sighting aid Mounting bracket, adjustable in one axis, 2970336 TM-FBMH-CT for massive housing 2970204 TM-AB-CT Mounting bracket, adjustable in 2 axes 2970205 TM-MB-CT Mounting bolts with M12x1 thread Mounting fork, adjustable in 2 axes. 2970206 TM-MG-CT with M12x1 fastening 2970207 TM-AP-CT Air purge collar for sensors from 10:1 lens Air purge collar for sensors from 10:1 lens made 2970335 TM-APS-CT from stainless steel 2970208 TM-AP2-CT Air purge collar for sensor with 2:1 lens 2970209 TM-APL-CT Air purge collar, laminar Air purge collar, laminar with integrated ancillary 2970210 TM-APLCF-CT CF lens Air purge collar, laminar with integrated 2970357 TM-APLCFH-CT ancillary CF lens for M1/M2/M3/M5 sensors Air purge collar made from stainless steel for 2970386 TM-APMH-CT massive housing Right angle mirror for measurements TM-RAM-CT 2970211 90 °C to the sensor axis 2970212 TM-RAIL-CT Rail mount adapter for CT controller TM-COV-CT Closed cover for controller 2970213 2970214 TM-MHS-CT Massive housing made from stainless steel Massive housing made from stainless steel with 2970215 TM-MHSCF-CT integrated ancillary CF lens Massive housing made from stainless steel 2970358 TM-MHSCFH-CT with integrated ancillary CF lens for M1/M2/M3/ M5 sensors 2970216 TM-MHA-CT Massive housing made from anodized aluminum Massive housing made from stainless steel 2970217 TM-MHACF-CT with integrated ancillary CF lens Massive housing made from anodized aluminum with integrated ancillary CF lens for 2970359 TM-MHACFH-CT M1/M2/M3/M5 sensors 2970218 TM-MHB-CT Massive housing made from brass Massive housing made from brass with integra-2970219 TM-MHBCF-CT ted ancillary CF lens Massive housing made from brass with integra-2970360 TM-MHBCFH-CT ted ancillary CF lens for M1/M2/M3/M5 sensors 2970220 TM-PT-CT Protective tube made from brass Pipe adapter for the mounting of 2970326 TM-PA-CT reflection protection tubes TM-ST20-CT Reflection protection tube, length 20 mm 2970327 Reflection protection tube, length 40 mm 2970328 TM-ST40-CT 2970329 TM-ST88-CT Reflection protection tube, length 88 mm Laser sighting aid for CT sensors TM-I ST-CT 2970221 incl. batteries (2xAlkaline AA) OEM laser sighting aid, 635 nm, 3.5 m cable, TM-LSTOEM-CT 2970300 for connection to CT controller 2970300. TM-LSTOEM-OEM laser sighting aid, 635 nm, 8 m cable, 008 CT(008) for connection to CT controller Accessories kit for using CT in Ex areas (Zone 1: PTB 01 ATEX 2053/ E II (1/2) G [EEx ia/ib] IIC/ 2970222 TM-EX-CT IIB), pre-assembled EX box, without Zener bar-

riers, applicable in combination with CT sensors

(except for CTfast)

Optical accessories					
Art. No.	Model				
2970201	TM-CF-CT	Ancillary CF lens (only for SF models)			
2970202	TM-PW-CT	Protective window (only for SF models)			
2970297	TM-CFAG-CT	Ancillary lens with external thread			
2970330	TM-CFH-CT	Ancillary lens for M1/M2/M3/M5 sensors			
2970331	TM-CFHAG-CT	Ancillary lens with external thread for M1/M2/M3/M5 sensors			
2970299	TM-PWAG-CT	Protective window with external thread			
2970332	TM-PWH-CT	Protective window for M1/M2/M3/M5 sensors			
2970333	TM-PWHAG-CT	Protective window with external thread for M1/M2/M3/M5 sensors			
Interfaces	6				
2970223	TM-USBK-CT	USB interface kit: USB interface, USB cable, CompactConnect software, second cable gland for controller			
2970224	TM-RS232K-CT	RS232 interface: RS232 interface, computer cable, CompactConnect software, second cable gland for controller			
2970338	TM-RS485USBK- CTL	RS485-USB-adapter, incl. PC cable, CompactConnect software and CTmulti, second cable gland for use with interface board TM-RS485B-CT			
2970226	TM-RS485B-CT	RS485 interface board incl. second cable gland			
2970227	TM-CANK-CT	CAN-Bus interface for thermoMETER CT/ protocol: CANopen presets: module address 20 (14H), 250 kBaud, 0-60 °C			
2970228	TM-PFBDPK-CT	Profibus-DPv1 interface for thermoMETER CT with plug-in connection			
2970229	TM-ETHNK-CT	Ethernet-Kit: interface board, external Ethernet adapter, CompactConnect software, second cable gland			
2970230	TM-RI-CT	Relay interface: two electrically isolated relays, 60 VDC/ 42 $\text{VAC}_{\text{eff}},$ 0.4 A			
Calibratio	n				
2970231	TM-CERT-CT	Certificate of calibration			
2970310	TM-HTCERT-CT	Certificate of calibration for CTM sensors			
CTM3-XL					
2970352	TM-FBXL-CT	Mounting bracket, adjustable in one axis			
2970353	TM-ABXL-CT	Mounting bracket, adjustable in 2 axes			
2970354	TM-APXL-CT	Air purge collar, stainless steel			
2970361	TM-XLCERT-CT	Certificate of calibration			

Outline I and a second second

#### thermoMETER



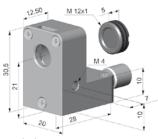
TM-CF-CT Ancillary CF lens (only for SF models)



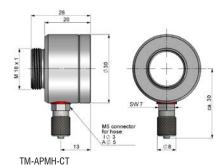
TM-CFAG-CT Ancillary CF lens with external thread TM-PWAG-CT Protective window with external thread



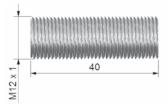
TM-APL-CT Air purge collar, laminar and TM-MG-CT Mounting fork



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



Air purge collar made from stainless steel for massive housing







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



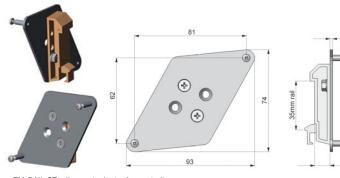
TM-AB-CT Mounting bracket, adjustable in two axes



TM-MB-CT mounting bolt with M12x1 thread adjustable in one axis



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



TM-RAIL-CT rail mount adapter for controller



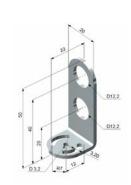


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TM-PA-CT Pipe adapter for reflection protection tube



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

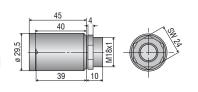


TM-FB2-CT Mounting bracket for sensor and laser sighting aid





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

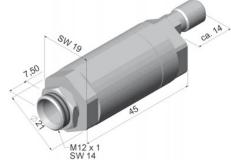




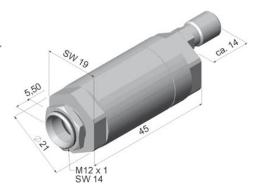
TM-TAS-CT Pivoted joint for CT sensors



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-APS-CT Air purge collar, stainless steel



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 Infrared temperature sensors with crosshair laser sighting and video output



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



MICRO-EPSILON USA 8120 Brownleigh Dr. · Raleigh, NC 27617 / USA Phone +1/919/787-9707 · Fax +1/919/787-9706 me-usa@micro-epsilon.com · **www.micro-epsilon.com**