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More Precision

thermoMETER // Non-contact infrared temperature sensors





thermoMETER CT

Non-contact IR temperature sensor for common applications

- Measuring range from -50 °C to 975 °C
- One of the smallest 22:1 infrared sensors worldwide
- Up to 180 °C ambient temperature without cooling
- Separate controller with programming keys and backlit display
- Selectable and scalable analog output, optional digital interfaces
- Exchangeable sensors
- Best price sensor

Optical specifications thermoMETER CT = smallest spot size / focal point (mm)

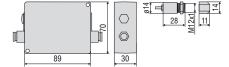
Standard Focus																
SF02	2:1	5	53.8	102.5	151.3	200	251.3	302.5	353.8	405						
	distance in mm	0	100	200	300	400	500	600	700	800						
SF15	15:1	6.5	10.3	14.1	17.9	21.7	25.4	30.9	37.1	43.3	49.5	55.8	62	68.2	74.4	80.7
	distance in mm	0	75	150	225	300	375	450	525	600	675	750	825	900	975	1050
SF22	22:1	6.5	10.9	15.2	19.5	23.9	28.3	32.6	37	41.3	45.7	50				
	distance in mm	0	110	220	330	440	550	660	770	880	990	1100				
Close Fo	ocus (with optiona	Ily avai	lable CI	F lens)												
CF02	2:1	5	3.9	2.8	2.5	4.8	6.4	8	11.3	14.6						
	distance in mm	0	10	20	23	30	35	40	50	60						
CF15	15:1	6.5	3.7	0.8	4.4	8.1	11.8	15.4	19.1	22.7						
CF22	22:1	7	3.8	0.6	4.4	8.2	12	15.8	19.6	23.4						
	distance in mm	0	5	10	15	20	25	30	35	40						



Optical resolution 2:1 15:1 22:1 Temperature range " -50 °C to 600 °C -50 °C to 600 °C -50 °C to 975 °C Spectral range 8 to 14 μm System accuracy " ±1 % or ±1 °C Femal to 10 mm ±1 °C Femal to 20 °C to 10 °C Femal to 20 °C to 10 °C Femal to 20 °C to 180 °C <th colspan="2">Model</th> <th colspan="4">CT-SF02-C3</th>	Model		CT-SF02-C3						
Spectral range 8 to 14 μm System accuracy *** ±1 % or ±1 °C Repeatability *** ±0.5 % or ±0.5 °C Temperature resolution 0.1 °C Response time 150 ms (95 %) Emissivity/gain *** 0.100 to 1.100 Transmissivity/gain *** 0.100 to 1.100 Signal processing *** peak hold, valley hold, average; extended hold function with threshold and hysteresis Certificate of calibration optional Outputs/analog channel 1 0/4 to 20 mA, 0 to 5/10 V, thermocouple J, K Outputs/analog channel 2 sensor temperature (-20 to 180 °C as 0 to 5 V or 0 to 10 V), alarm output Outputs/digital optional USB, RS232, RS485, Modbus RTU, Profibus DR, Ethernet Output impedances urrent output mA max. 500 Q (with 8 to 36 VDC) Inputs programmable functional inputs for external emissivity adjustment ambient temperature compensation, trigger (reset of hold functions) Cable length 1 m, 3 m (standard), 8 m, 15 m Power supply 8 to 36 VDC; max. 100 mA Protection class iP65 (NEMA-4) Ambient temperature -20 °C to 130 °C -20 °C to 180 °C	Optical resolution		2:1	15:1	22:1				
System accuracy ° ±1 % or ±1 °C Repeatability ° ±0.5 % or ±0.5 °C Temperature resolution 0.1 °C Response time 150 ms (95 %) Emissivity/gain ° 0.100 to 1.100 Transmissivity/gain ° 0.100 to 1.100 Signal processing ° peak hold, valley hold, average; extended hold function with threshold and hysteresis Certificate of calibration optional Outputs/analog channel 1 0/4 to 20 mA, 0 to 5/10 V, thermocouple J, K Outputs/analog optional relays: 2 x 60 VDC/42 VAC; 0.4 A; electrically isolated Outputs/digital optional USB, RS232, RS485, Modibus RTU, Profibus DP, Ethernet Output impedances current output mA max. 500 Ω (with 8 to 36 VDC) Inputs programmable functional inputs for external emissivity adjustment ambient temperature compensation, trigger (reset of hold functions) Cable length 1 m, 3 m (standard), 8 m, 15 m Power supply 8 to 36 VDC; max. 100 mA Protection class -20 °C to 130 °C -20 °C to 180 °C Ambient temperature sensor -20 °C to 130 °C -40 °C to 180 °C Storage temperature <td< td=""><td>Temperature range 1)</td><td></td><td>-50 °C to 600 °C</td><td>-50 °C to 600 °C</td><td>-50 °C to 975 °C</td></td<>	Temperature range 1)		-50 °C to 600 °C	-50 °C to 600 °C	-50 °C to 975 °C				
Repeatability 2	Spectral range		8 to 14 μ m						
Temperature resolution Response time Emissivity/gain ¹¹ Transmissivity/gain ¹¹ Transmissivity/gain ¹¹ Signal processing ¹¹ Deak hold, valley hold, average; extended hold function with threshold and hysteresis Certificate of calibration Cetamel 1 Outputs/analog Channel 2 Sensor temperature (-20 to 180 °C as 0 to 5 V or 0 to 10 V), alarm output Outputs/analog Outputs/digital Outputs/digital Outputs/digital Outputs woltage output voltage output Inputs Cable length Prover supply Ambient temperature Storage temperature Storage temperature Storage temperature Storage temperature Storage temperature 150 ms (95 %) 0.100 to 1.100 0.100 to 1.100 O.100 to 1.100 O.100 to 1.00 O.100 to 1.100 Signal processing ¹¹ O/4 to 20 mA, 0 to 5/10 V, thermocouple J, K Sensor temperature (-20 to 180 °C as 0 to 5 V or 0 to 10 V), alarm output Telays: 2 x 60 VDC/42 VAC; 0.4 A; electrically isolated Outputs/Analog Outp	System accuracy 2)		±1 % or ±1 °C						
Response time	Repeatability 2)		±0.5 % or ±0.5 °C						
Emissivity/gain ¹¹ 0.100 to 1.100 Transmissivity/gain ¹¹ 0.100 to 1.100 Signal processing ¹¹ peak hold, valley hold, average; extended hold function with threshold and hysteresis Certificate of calibration optional Outputs/analog channel ¹ 0/4 to 20 mA, 0 to 5/10 V, thermocouple J, K Outputs/analog channel ² sensor temperature (-20 to 180 °C as 0 to 5 V or 0 to 10 V), alarm output Outputs/analog optional relays: 2 x 60 VDC/42 VAC; 0.4 A; electrically isolated Outputs/digital optional USB, RS232, RS485, Modbus RTU, Profibus DP, Ethernet Output impedances current output mA max. 500 Ω (with 8 to 36 VDC) Inputs programmable functional inputs for external emissivity adjustment ambient temperature compensation, trigger (reset of hold functions) Cable length 1 m, 3 m (standard), 8 m, 15 m Power supply 8 to 36 VDC; max. 100 mA Protection class IP65 (NEMA-4) Ambient temperature sensor -20 °C to 130 °C -20 °C to 180 °C Storage temperature -40 °C to 130 °C -40 °C to 180 °C	Temperature resolution		0.1 °C						
Transmissivity/gain 1) 0.100 to 1.100 Signal processing 1) peak hold, valley hold, average; extended hold function with threshold and hysteresis optional optional optional optional channel 1 0/4 to 20 mA, 0 to 5/10 V, thermocouple J, K Outputs/analog channel 2 sensor temperature (-20 to 180 °C as 0 to 5 V or 0 to 10 V), alarm output Outputs/analog optional relays: 2 x 60 VDC/42 VAC; 0.4 A; electrically isolated Outputs/digital optional USB, RS232, RS485, Modbus RTU, Profibus DP, Ethernet Current output mA max. 500 Ω (with 8 to 36 VDC) Inputs programmable functional inputs for external emissivity adjustment ambient temperature compensation, trigger (reset of hold functions) Cable length 1 m, 3 m (standard), 8 m, 15 m Power supply 8 to 36 VDC; max. 100 mA Protection class IP65 (NEMA-4) Sensor -20 °C to 130 °C -20 °C to 180 °C Storage temperature	Response time		150 ms (95 %)						
Signal processing ¹¹ peak hold, valley hold, average; extended hold function with threshold and hysteresis Certificate of calibration optional Outputs/analog channel 1 0/4 to 20 mA, 0 to 5/10 V, thermocouple J, K Outputs/analog optional Outputs/analog optional Outputs/digital optional USB, RS232, RS485, Modbus RTU, Profibus DP, Ethernet Output impedances current output Output impedances current output Inputs programmable functional inputs for external emissivity adjustment ambient temperature compensation, trigger (reset of hold functions) Cable length 1 m, 3 m (standard), 8 m, 15 m Power supply 8 to 36 VDC; max. 100 mA Protection class IP65 (NEMA-4) Ambient temperature controller Sensor -20 °C to 130 °C -20 °C to 180 °C Storage temperature -40 °C to 130 °C -40 °C to 180 °C	Emissivity/gain 1)			0.100 to 1.100					
Certificate of calibration Outputs/analog channel 1 0/4 to 20 mA, 0 to 5/10 V, thermocouple J, K Outputs/analog channel 2 sensor temperature (-20 to 180 °C as 0 to 5 V or 0 to 10 V), alarm output Outputs/analog optional USB, RS232, RS485, Modbus RTU, Profibus DP, Ethernet Output impedances current output voltage output mA max. 500 Ω (with 8 to 36 VDC) Inputs programmable functional inputs for external emissivity adjustment ambient temperature compensation, trigger (reset of hold functions) Cable length 1 m, 3 m (standard), 8 m, 15 m Power supply 8 to 36 VDC; max. 100 mA Protection class IP65 (NEMA-4) Ambient temperature sensor -20 °C to 130 °C -20 °C to 180 °C Storage temperature sensor -40 °C to 130 °C -40 °C to 180 °C	Transmissivity/gain 1)			0.100 to 1.100					
channel 10/4 to 20 mA, 0 to 5/10 V, thermocouple J, KOutputs/analogchannel 2sensor temperature (-20 to 180 °C as 0 to 5 V or 0 to 10 V), alarm outputOutputs/analogoptionalrelays: 2 x 60 VDC/42 VAC; 0.4 A; electrically isolatedOutputs/digitaloptionalUSB, RS232, RS485, Modbus RTU, Profibus DP, EthernetOutput impedancescurrent outputmA max. 500 Ω (with 8 to 36 VDC)Output impedancesvoltage outputmin. 100 kΩ load impedance, thermocouple 20 ΩInputsprogrammable functional inputs for external emissivity adjustment ambient temperature compensation, trigger (reset of hold functions)Cable length1 m, 3 m (standard), 8 m, 15 mPower supply8 to 36 VDC; max. 100 mAProtection classIP65 (NEMA-4)Ambient temperaturesensor-20 °C to 130 °C-20 °C to 180 °CStorage temperaturesensor-40 °C to 130 °C-40 °C to 180 °C	Signal processing 1)		peak hold, valley hold, a	average; extended hold function with t	hreshold and hysteresis				
Outputs/analog channel 2 sensor temperature (-20 to 180 °C as 0 to 5 V or 0 to 10 V), alarm output Outputs/analog optional relays: 2 x 60 VDC/42 VAC; 0.4 A; electrically isolated Outputs/digital optional USB, RS232, RS485, Modbus RTU, Profibus DP, Ethernet Output impedances current output voltage output mA max. 500 Ω (with 8 to 36 VDC) Inputs programmable functional inputs for external emissivity adjustment ambient temperature compensation, trigger (reset of hold functions) Cable length 1 m, 3 m (standard), 8 m, 15 m Power supply 8 to 36 VDC; max. 100 mA Protection class IP65 (NEMA-4) Ambient temperature sensor -20 °C to 130 °C -20 °C to 180 °C Storage temperature sensor -40 °C to 130 °C -40 °C to 180 °C	Certificate of calibration			optional					
Channel 2 sensor temperature (-20 to 180 °C as 0 to 5 V or 0 to 10 V), alarm output Outputs/analog optional relays: 2 x 60 VDC/42 VAC; 0.4 A; electrically isolated Outputs/digital optional USB, RS232, RS485, Modbus RTU, Profibus DP, Ethernet Output impedances current output mA max. 500 Ω (with 8 to 36 VDC) Inputs programmable functional inputs for external emissivity adjustment ambient temperature compensation, trigger (reset of hold functions) Cable length 1 m, 3 m (standard), 8 m, 15 m Power supply 8 to 36 VDC; max. 100 mA Protection class IP65 (NEMA-4) Ambient temperature sensor -20 °C to 130 °C Storage temperature sensor -40 °C to 130 °C			0/4 to 20 mA, 0 to 5/10 V, thermocouple J, K						
Outputs/digital optional current output USB, RS232, RS485, Modbus RTU, Profibus DP, Ethernet Output impedances current output min. 100 kΩ load impedance, thermocouple 20 Ω Inputs programmable functional inputs for external emissivity adjustment ambient temperature compensation, trigger (reset of hold functions) Cable length 1 m, 3 m (standard), 8 m, 15 m Power supply 8 to 36 VDC; max. 100 mA Protection class IP65 (NEMA-4) Ambient temperature controller Sensor -40 °C to 130 °C Sensor -40 °C to 130 °C Sensor -40 °C to 130 °C	Outputs/arialog	channel 2	sensor temperature (-20 to 180 $^{\circ}\text{C}$ as 0 to 5 V or 0 to 10 V), alarm output						
Current output mA max. 500 Ω (with 8 to 36 VDC) Output impedances min. 100 kΩ load impedance, thermocouple 20 Ω Inputs programmable functional inputs for external emissivity adjustment ambient temperature compensation, trigger (reset of hold functions) Cable length 1 m, 3 m (standard), 8 m, 15 m Power supply 8 to 36 VDC; max. 100 mA Protection class IP65 (NEMA-4) Ambient temperature sensor -20 °C to 130 °C -20 °C to 180 °C Storage temperature sensor	Outputs/analog optional		relays: 2 x 60 VDC/42 VAC; 0.4 A; electrically isolated						
Output impedances voltage output min. 100 kΩ load impedance, thermocouple 20 Ω Inputs programmable functional inputs for external emissivity adjustment ambient temperature compensation, trigger (reset of hold functions) Cable length 1 m, 3 m (standard), 8 m, 15 m Power supply 8 to 36 VDC; max. 100 mA Protection class IP65 (NEMA-4) Ambient temperature sensor -20 °C to 130 °C -20 °C to 180 °C Storage temperature sensor	Outputs/digital optional		USB, RS232, RS485, Modbus RTU, Profibus DP, Ethernet						
voltage output min. 100 kΩ load impedance, thermocouple 20 Ω Inputs programmable functional inputs for external emissivity adjustment ambient temperature compensation, trigger (reset of hold functions) Cable length 1 m, 3 m (standard), 8 m, 15 m Power supply 8 to 36 VDC; max. 100 mA Protection class IP65 (NEMA-4) Ambient temperature sensor -20 °C to 130 °C -20 °C to 180 °C Storage temperature sensor			mA max. 500 Ω (with 8 to 36 VDC)						
ambient temperature compensation, trigger (reset of hold functions) Cable length 1 m, 3 m (standard), 8 m, 15 m Power supply 8 to 36 VDC; max. 100 mA Protection class IP65 (NEMA-4) Ambient temperature sensor -20 °C to 130 °C -20 °C to 180 °C controller o °C to 85 °C sensor -40 °C to 130 °C -40 °C to 130 °C			min. 100 k Ω load impedance, thermocouple 20 Ω						
Power supply 8 to 36 VDC; max. 100 mA Protection class IP65 (NEMA-4) Ambient temperature sensor controller -20 °C to 130 °C -20 °C to 180 °C Storage temperature sensor sensor -40 °C to 130 °C -40 °C to 180 °C	Inputs								
Protection class Sensor -20 °C to 130 °C -20 °C to 180 °C Ambient temperature controller Sensor -40 °C to 130 °C -40 °C to 180 °C Storage temperature	Cable length		1 m, 3 m (standard), 8 m, 15 m						
Ambient temperature sensor -20 °C to 130 °C controller sensor -40 °C to 130 °C sensor -40 °C to 130 °C -40 °C to 130 °C -40 °C to 180 °C	Power supply		8 to 36 VDC; max. 100 mA						
Ambient temperature controller o °C to 85 °C sensor -40 °C to 130 °C -40 °C to 130 °C -40 °C to 180 °C	Protection class		IP65 (NEMA-4)						
controller 0 °C to 85 °C sensor -40 °C to 130 °C -40 °C to 180 °C Storage temperature			-20 °C to 130 °C	-20 °C to	o 180 °C				
Storage temperature			0 °C to 85 °C						
controller -40 °C to 85 °C	Storago tomporaturo	sensor	-40 °C to 130 °C	-40 °C to	o 180 ℃				
			-40 °C to 85 °C						
Relative humidity 10 to 95 %, non-condensing	Relative humidity		10 to 95 %, non-condensing						
Vibration sensor IEC 68-2-6: 3 G, 11 to 200 Hz, any axis	Vibration sensor		IEC 68-2-6: 3 G, 11 to 200 Hz, any axis						
Shock sensor IEC 68-2-27: 50 G, 11 ms, any axis	Shock sensor		IEC 68-2-27: 50 G, 11 ms, any axis						
Weight sensor: 40 g; controller: 420 g	Weight		sensor: 40 g; controller: 420 g						

¹⁾ adjustable via programming keys or software

 $^{^{2)}}$ ambient temperature 23 $\pm 5~^{\circ}\text{C};$ whichever is greater



Product identification

CT- SF02- C3						
Cable length [1 m / 3 m (standard) / 8 m / 15 m]						
Focus [SF02 / SF15 /SF22]						
thermoMETER CT						

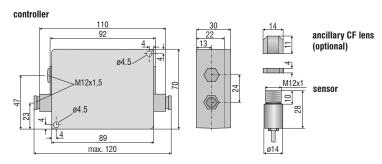
Accessories page 40 - 43

- Ancillary CF lens
- Protective window
- Mounting bracket / mounting bolt
- Air purge collar
- Right angle mirror

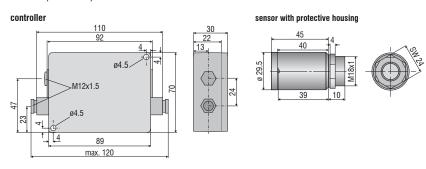
- Rail mount adapter for controller
- Massive housing
- Protective tube
- Laser sighting aid
- Digital-interface kits

- Accessories kit for use in Ex areas
- Certificate of calibration

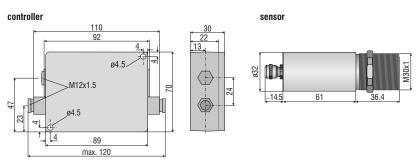
CT / CTfast / CTM1/M2/M3



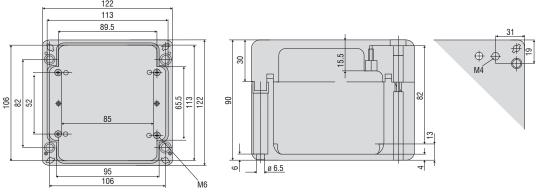
CThot / CTP-3 / CTP-7



CTM3-XL







Accessories and Software of CT series

Mechanical accessories						
Art. No. Model						
2970203	TM-FB-CT	Mounting bracket, fixed				
2970325	TM-FB2-CT	Mounting bracket, adjustable in one axis, for simultaneous assembly of CT sensor and laser sighting aid				
2970336	TM-FBMH-CT	Mounting bracket, adjustable in one axis, for massive housing				
2970204	TM-AB-CT	Mounting bracket, adjustable in 2 axes				
2970205	TM-MB-CT	Mounting bolts with M12x1 thread				
2970206	TM-MG-CT	Mounting fork, adjustable in 2 axes, with M12x1 fastening				
2970207	TM-AP-CT	Air purge collar for sensors from 10:1 lens				
2970335	TM-APS-CT	Air purge collar for sensors from 10:1 lens made from stainless steel				
2970208	TM-AP2-CT	Air purge collar for sensor with 2:1 lens				
2970209	TM-APL-CT	Air purge collar, laminar				
2970210	TM-APLCF-CT	Air purge collar, laminar with integrated ancillary CF lens				
2970357	TM-APLCFH-CT	Air purge collar, laminar with integrated ancillary CF lens for M1/M2/M3/M5 sensors				
2970386	TM-APMH-CT	Air purge collar made from stainless steel for massive housing				
2970463	TM-TAS-CT	Pivoted joint for CT sensors				
2970211	TM-RAM-CT	Right angle mirror for measurements 90 °C to the sensor axis				
2970212	TM-RAIL-CT	Rail mount adapter for CT controller				
2970213	TM-COV-CT	Closed cover for controller				
2970214	TM-MHS-CT	Massive housing made from stainless steel				
2970215	TM-MHSCF-CT	Massive housing made from stainless steel with integrated ancillary CF lens				
2970358	TM-MHSCFH-CT	Massive housing made from stainless steel with integrated ancillary CF lens for M1/M2/M3/M5 sensors				
2970216	TM-MHA-CT	Massive housing made from anodized aluminum				
2970217	TM-MHACF-CT	Massive housing made from stainless steel with integrated ancillary CF lens				
2970359	TM-MHACFH-CT	Massive housing made from anodized aluminum with integrated ancillary CF lens for M1/M2/M3/M5 sensors				
2970326	TM-PA-CT	Pipe adapter for the mounting of reflection protection tubes				
2970327	TM-ST20-CT	Reflection protection tube, length 20 mm				
2970328	TM-ST40-CT	Reflection protection tube, length 40 mm				
2970329	TM-ST88-CT	Reflection protection tube, length 88 mm				
2970221	TM-LST-CT	Laser sighting aid for CT sensors incl. batteries (2xAlkaline AA)				
2970300	TM-LSTOEM-CT	OEM laser sighting aid, 635 nm, 3.5 m cable, for connection to CT controller				
2970300. 008	TM-LSTOEM- CT(008)	OEM laser sighting aid, 635 nm, 8 m cable, for connection to CT controller				

Optical a	ccessories	
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	8	
2970729	TM-USBK-CT	USB-Interface-board, cable with Micro-USB plug and adapter for USB-C and USB-A, CompactConnect software (as download), Quick reference, 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 VAC $_{\rm eff}, 0.4~{\rm A}$
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









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



TM-KF40GE-CT KF40 Flange with Ge window TM-KF40B270-CT KF40 Flange for CTM-1,-2,-3 with B270 window





TM-PA-CT Pipe adapter for reflection protection tube



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



TM-ST40-CT Reflection protection tube

Accessories for CT series



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



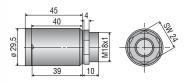
TM-FB2-CT Mounting bracket for sensor and laser sighting aid



TM-RAM-CT Right angle mirror



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



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

Infrared thermal imagers from Micro-Epsilon



thermolMAGER TIM

Compact thermal imaging cameras for industrial temperature monitoring

- Temperature range from -20 °C to 2450 °C
- Ideal for OEM
- Real-time thermography using license-free software
- Protective housing for harsh environments
- Special variants for the glass, metal and plastics industries