



### thermoMETER CTP7

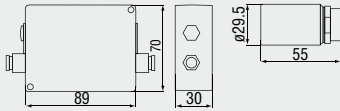
This state of the art non contact infrared temperature sensor operates with a wavelength of  $7.9\mu\text{m}$ . This special spectral range allows the IR temperature sensor to measure accurate against thin plastic film materials such as PET, PU, PTFE and PA.

- Measuring range from  $0^\circ$  to  $500^\circ\text{C}$
- Accurate temperature measurement of thin plastic film materials
- Up to  $85^\circ\text{C}$  ambient temperature without cooling
- 150ms response time
- Fully programmable instrument for enhanced signal processing and I/O control
- Separate controller with easy accessible programming keys and multi colour LCD

### Optical specifications thermoMETER CTP7

□ = smallest spot size (mm)

Standard Focus optics										
SF10	10:1	7	10	20	30	40	50	60	70	80
distance in mm		0	100	200	300	400	500	600	700	800



### Product identification

**CTP - 7 SF10 - C3**

Cable length [3m (standard) / 8m / 15m]  
Focus  
Spectral range [7.9 $\mu$ m]  
thermoMETER CTP7

Model		CTP-7SF10-C3
Optical resolution		10:1
Temperature range <sup>1</sup>		0 to 500°C
Spectral range		7.9 $\mu$ m
System accuracy <sup>2</sup>		$\pm 1\%$ or $\pm 1.5^\circ\text{C}$
Repeatability <sup>2</sup>		$\pm 0.5\%$ or $\pm 0.5^\circ\text{C}$
Temperature resolution		$\pm 0.5^\circ\text{C}$
Response time		150ms
Emissivity/gain <sup>1</sup>		0.100 to 1.100
Transmissivity/gain <sup>1</sup>		0.100 to 1.100
Signal processing <sup>1</sup>		Peak hold, valley hold, average; extended hold function with threshold and hysteresis
Outputs/analogue	channel 1 channel 2 optional	0/4 to 20mA, 0 to 5/10V, thermocouple J, K sensor temperature (-20 to 180°C as 0 to 5V or 0 to 10V), alarm output relay: 2 x 60VDC/ 42VAC <sub>eff</sub> ; 0.4A; optically isolated
Outputs/digital	optional	USB, RS232, RS485, CAN, Profibus DP
Output impedances	current output voltage output	mA max. 500 $\Omega$ (8 to 36VDC) mV min. 100k $\Omega$ load impedance thermocouple 20 $\Omega$
Inputs		programmable functional inputs for external emissivity adjustment, ambient temperature compensation, trigger (reset of hold functions)
Cable length		3m (standard), 8m, 15m
Power supply		8 to 36VDC; max. 100mA
Environmental rating		IP 65 (NEMA-4)
Ambient temperature		sensor: -20°C to 85°C controller: 0°C to 85°C
Storage temperature		sensor: -40°C to 85°C controller: -40°C to 85°C
Relative humidity		10 to 95%, non condensing
Vibration	sensor	IEC 68-2-6: 3 G, 11 to 200Hz, any axis
Shock	sensor	IEC 68-2-27: 50 G, 11ms, any axis
Weight		sensor: 200g; controller: 420g

<sup>1</sup> adjustable via programming keys or software

<sup>2</sup>  $\pm$  ambient temperature: 23 $\pm$ 5°C; whichever is greater