

	Universal type			Fast type	For open	For metal			For glas	For plastic
Series	TWO PIECE UNITS - Compact Series									
Base Model	CT	CT	CT	CTfast	CTHot	CT	CT	CT	CT	CT
Type	LT02	LT15	LT22	LT10F	LT02H/ LT10H	1M	2M	3M	G5	P7
Classification / special features	Universal LT sensor with programming keys and display	Universal LT sensor with programming keys and display	Universal LT sensor with programming keys and display	Universal LT sensor with fast response time	Universal LT sensor for very hot environments	Universal 1M sensor for high temp. metal applications	Universal 2M sensor for high temp. metal applications	Universal 3M sensor for low and medium temp. metal applications	Universal G5 sensor for glass temperature measurements	Universal P7 sensor for thin plastic film temperature measurements
Detector	Thermopile	Thermopile	Thermopile	Thermopile	Thermopile	Si	InGaAs	extended InGaAs	Thermopile	Thermopile
Sensing head exchangeable	■	■	■	-	■	■ [+CTlaser 1M]	■ [+CTlaser 2M]	■ [+CTlaser 3M]	■	-
Head cable shortening	■ [-0,1 K/m]	■ [-0,1 K/m]	■ [-0,1 K/m]	■ [max. 3m]	■ [-0,1 K/m]	■ [max. 3m]	■ [max. 3m]	■	■ [-0,1 K/m]	-
Thread (sensing head)	M12x1	M12x1	M12x1	M12x1	M18x1	M12x1	M12x1	M12x1	M12x1	M18x1
Spectral range	8-14 µm	8-14 µm	8-14 µm	8-14 µm	8-14 µm	1,0 µm	1,6 µm	2,3 µm	5,0 µm	7,9 µm
Temperature ranges	-50...600°C	-50...600°C	-50...975°C	-50...975 °C	-40...975 °C	L: 485...1050°C H: 650...1800°C	L: 250...800°C H: 385...1600°C	L: 50...400°C H: 100...600°C H1: 150...900°C H2: 200...1200°C H3: 400...1800°C	L: 100...1200°C H: 250...1650°C	0...500°C
Temperature resolution	0,1°C	0,1°C	0,1°C	0,5°C	0,25°C	0,1°C	0,1°C	0,1°C	L:0,1°C/ H:0,2°C	0,5°C
Optical resolution	2:1	15:1	22:1	10:1	2:1/ 10:1	L:40:1/ H:75:1	L:40:1/ H:75:1	L:22:1/ H:33:1/ H1-H3: 75:1	L:10:1/ H:20:1	10:1
Option: CF lens	■	■	■	■	■	■	■	■	-	-
Smallest spot (CF optics/ add. CF lens)	2,5mm@ 23mm	0,8mm@ 10mm	0,6mm@ 10mm	1,2mm@ 10mm	1,2mm@ 10mm	1,5mm@ 110mm	1,5mm@ 110mm	3,4mm@ 110mm	-	-
Smallest spot (SF optics)	7mm	7mm	7mm	7mm	7mm	7mm	7mm	7mm	7mm	7mm
Sighting	-	-	-	-	-	-	-	-	-	-
Response time (90%)	150 ms	150 ms	150 ms	9ms	100ms	1ms	1ms	1ms	L:120ms/ H:80ms	150ms
Accuracy	±1°C or ±1%	±1°C or ±1%	±1°C or ±1%	±2°C or ±1%	±1,5°C or ±1%	±(0,3% T _{meas} +2°C)	±(0,3% T _{meas} +2°C)	±(0,3% T _{meas} +2°C)	±2°C or ±1%	±1,5°C or ±1%
Outputs analog: 0-20mA/ 4-20mA/ 0-5V/ 0-10V/ t/c (KJ)	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■
Second analog output	■	■	■	■	■	-	-	-	■	■
Interfaces: USB/ RS232/ RS485/ Profibus/ Ethernet	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■
Signal processing: Peak/ Valley/ AVG/ Advanced hold	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■
T _{amb} Head min.	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C
T _{amb} Head max.	130°C	180°C	180°C	120°C	250°C	100°C	125°C	85°C	85°C	85°C
T _{amb} Electronics max.	85°C	85°C	85°C	85°C	85°C	85°C	85°C	85°C	85°C	85°C
Functional inputs/ number	■/3	■/3	■/3	■/3	■/3	■/3	■/3	■/3	■/3	■/3
Extern emissivity adjustment	■	■	■	■	■	■	■	■	■	■
External ambient control	■	■	■	■	■	■	■	■	■	■
Trigger input for reset of hold	■	■	■	■	■	■	■	■	■	■
Digital I/O pins	-	-	-	-	-	-	-	-	-	-
Simultan analog & digital out	■	■	■	■	■	■	■	■	■	■
Alarm out altern to analog out	■	■	■	■	■	■	■	■	■	■
Additional alarm output	■	■	■	■	■	■	■	■	■	■
Power supply	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC
Standard cable length	1m	1m	1m	1m	3m	3m	3m	3m	3m	3m
Cable length options	3/ 8/ 15m	3/ 8/ 15m	3/ 8/ 15m	3/ 8/ 15m	8/ 15m	8/ 15m	8/ 15m	-	8/ 15m	8/ 15m

Base price one unit EUR	225.--	280.--	295.--	370.--	590.--	460.--	460.--	630.--	460.--	605.--
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