

PyroCube Pyrometers for Special Applications (Summary)

PyroCube Type

Application

Description

Wavelength

Temperature Range











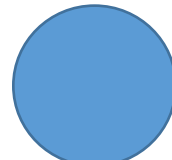


Response Time

Model No. PCU-













Focal Spot Diameter (mm)

Focal Distance (mm)

Maximum Measurement Distance (mm)

S			F		G			
General purpose			Fast response		Glass			
								
The general-purpose PyroCube S is suitable for measuring most non-reflective non-metals. Advantages over other general-purpose sensors are the built-in LED aiming light, fast response time, and small measured spot size.			The PyroCube F has a lightning-fast response time of 0.001 seconds.		Glass-specific measurement wavelength for improved accuracy when measuring glass surface temperature. G models are ideal for annealing, e.g. light bulb and fluorescent lamp manufacturing. GH models are suitable for high-temperature glass melting, such as in glass-to-metal sealing.			
2 - 7 μm			2 - 7 μm		5 μm			
0°C - 500°C			0°C - 500°C		50°C - 1200°C		50°C - 2400°C	
10 ms			1 ms		50 ms		10 ms	
S1.6	S3.0	S5.5	F3.5	F7.0	G7.0	G20.0	GH2.2	GH4.5
								
1.6	3	5.5	3.5	7	7	20	2.2	4.5
35	70	120	100	200	180	500	150	300
150	200	300	300	500	500	1000	300	500

PyroCube Pyrometers for Special Applications (Summary)

PyroCube Type	P		XS		M			
Application	Thin film plastics		Very small targets		Metals, low temperature			
		 						
Description	Accurately measures the temperature of thin film plastics that cannot be measured with general-purpose sensors. Materials include polyolefin, polyamide, polyethylene, polypropylene, polystyrene, nylon, PVC, acrylic, polyurethane and polycarbonate.		Extremely small measured spot size. Applications include measuring individual electronic component temperatures on a circuit board, and plastic welding where the seam is very narrow.		Short-wavelength sensors for measuring metals as cool as 50°C, with a very fast response time of 0.001 seconds and a very small measured spot size			
Wavelength	3.4 μm		5 - 7 μm		2.2 μm			
Temperature Range	80°C - 350°C		0°C - 500°C		50°C - 600°C			
Response Time	10 ms		10 ms		1 ms			
Model No. PCU-	P12.0		XSA0.7	XSB1.0	MA1.0	MA2.0	MA3.5	MB11.0
Focal Spot Diameter (mm)		 	  					
	12	0.7	1	1	2	3.5	11	
Focal Distance (mm)	200	40	100	50	100	200	200	
Maximum Measurement Distance (mm)	500	100	300	100	200	400	500	