



HIKMICRO

PD111 Pyrometer



The HIKMICRO PD111 high-performance pyrometer is an excellent choice for harsh industrial environments to measure high temperature and generate alarms, which is designed to be flexible and easy-to-install. It features a 2.4" OLCD screen with resolution 600*448 and can measure temperatures from 1000°C ~3200°C (1832°F~5792°F) with high accuracy.

- Temperature measurement range: 1000°C ~3200°C (1832°F~5792°F)
- Accuracy: $\pm(0.3\% \cdot T_{mea} + 1)$ °C or $\pm(0.3\% \cdot T_{mea} + 1.8)$ °F, T_{mea} means "Current measured temperature"
- Resolution: 0.1°C /0.18°F
- Repeatability: $\pm(0.1\% \cdot T_{mea} + 1)$ °C or $\pm(0.1\% \cdot T_{mea} + 1.8)$ °F, T_{mea} means "Current measured temperature"
- Optical Resolution (D:S): 300:1 (90% energy)
- Spot Size: 2mm
- Focus Range: 0.6m~INF
- 2.4" OLCD screen with resolution 600*448
- Protection Level: IP65
- 3 Ways of Sighting: Laser, visual display, eyepiece

• Specification

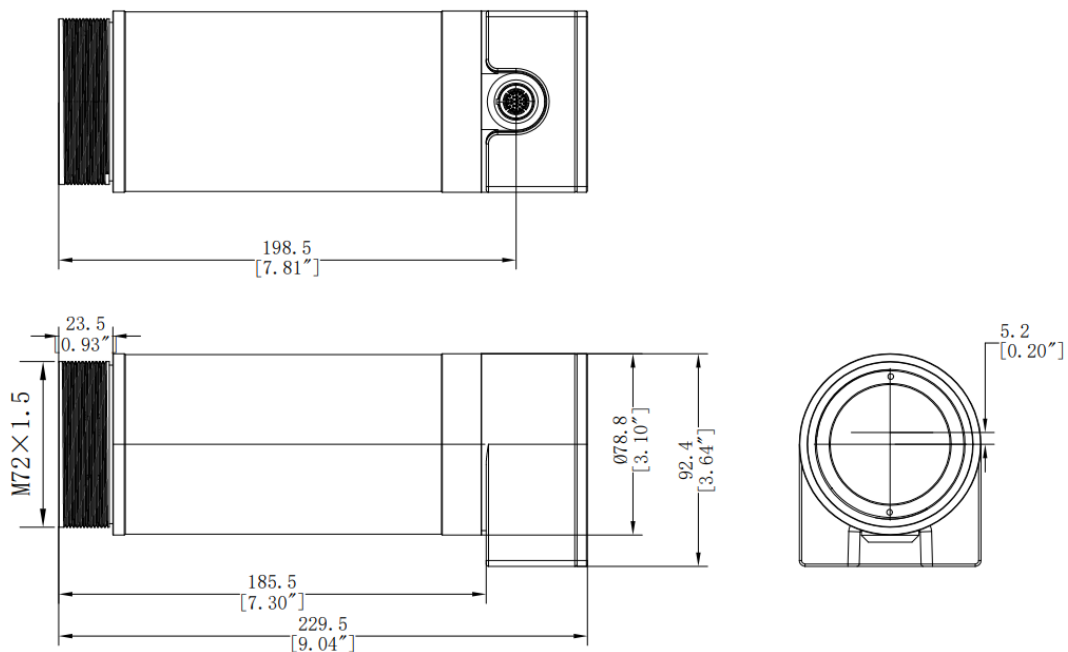
Model		PD111
Measurement Specifications	Spectral Response	0.8μm ~ 1.08μm (Two-Color)
	Temperature Range	1000C~3200°C(1832°F~5792°F)
	Accuracy	±(0.3%*Tmea+1) °C or ±(0.3%*Tmea+1.8)°F, Tmea means "Current measured temperature"
	Resolution	0.1°C /0.18°F
	Repeatability	±(0.1%*Tmea+1) °C or ±(0.1%*Tmea+1.8)°F, Tmea means "Current measured temperature"
	Optical Resolution (D:S)	300:1 (90% energy)
	Spot Size	2mm
	Response Time	1ms
	Slope	0.850~1.150
	Emissivity	0.100~1.100
	Sighting	Laser, visual display, eyepiece
	Signal Processing	Averaging mode, temperature filter mode, peak/valley hold mode
	Focus Range	0.6m~INF
Visual	Field of View (FOV)	11° x 8°
	Optical Resolution	2560*1856
Data Communication	Analog Output	Supports proportional output, 16-bit resolution, max load 400Ω - Interface: 4-20mA - Output Types: 4-20mA/0-20mA
	Digital Output	RS485, Modbus RTU, Modbus TCP
	Alarm Output	Supports relay control, dual control methods -COM output: Optocoupler isolation, delay time less than 2ms - PNP output: DC24V
	Protocols	TCP/IP
General	Power Supply	DC 15~30V
	Power Consumption	Max 10W
	Display	2.4" OLCD screen, resolution 600*448
	Laser	Yes
	Protection Level	IP65
	Working Temperature Range	- Without cooling: -20°C to +65°C (-4°F to +149°F) - With air & water cooling accessories: -20°C to +300°C (-4°F to +572°F)

Storage Temperature Range	-20°C to 70°C (-4°F to +158°F)
Relative Humidity	<95% non-condensing
Vibration	1 g, IEC 60068-2-6
Shock	15 g, IEC 60068-2-27
Dimension	87.8 x 92.4 x 229.5mm(3.1 x 3.64 x 9.04 in)
Weight	1780g(3.92 lb)

▪ Available Model

HM-P10D10-10A32-F2/ELV

▪ Dimension



Unit:mm[Inch]

▪ Accessory

▪ Optional

HM-AICH01/PY	HM-AIBR02/PY	HM-AFA01	DS-1701ZJ	HM-AIPU01/PY
				

HM-AIBR01/PY



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