PD121
Pyrometer



The HIKMICRO PD121 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 500℃~1800℃(932°F~3272°F) with high accuracy.

Features

- Temperature measurement range: 500℃~1800℃(932°F~3272°F)
- Accuracy: ±(0.3%*Tmea+1)℃ or ±(0.3%*Tmea+1.8)°F , Tmea means "Current measured temperature"
- Resolution: 0.1℃/0.18°F
- Repeatability: ±(0.1%*Tmea+1)℃ or ±(0.1%*Tmea+1.8)°F , Tmea means "Current measured temperature"
- Optical Resolution (D:S): 100:1(90% energy)
- Spot Size: 6mm
- 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

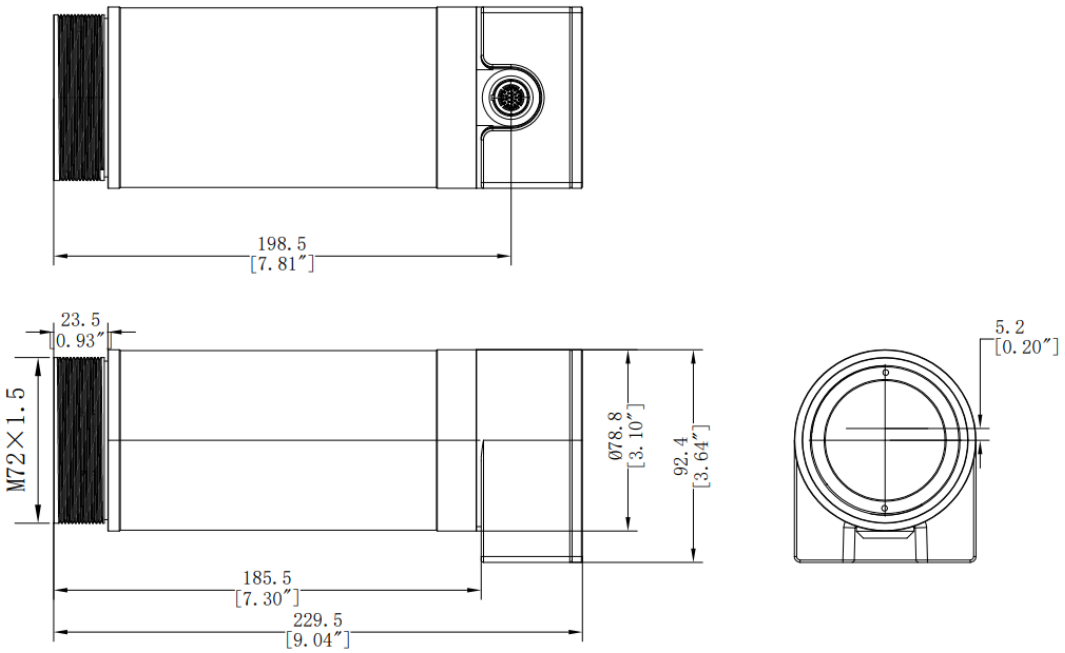
Measurement Specifications	
Spectral Response	0.8μm ~ 1.08μm (Two-Color)
Temperature Range	500℃~1800℃(932°F~3272°F)
Accuracy	±(0.3%*Tmea+1)℃ or ±(0.3%*Tmea+1.8)°F , Tmea means "Current measured temperature"
Resolution	0.1℃/0.18°F
Repeatability	±(0.1%*Tmea+1)℃ or ±(0.1%*Tmea+1.8)°F , Tmea means "Current measured temperature"
Optical Resolution (D:S)	100:1 (90% energy)
Spot Size	6mm
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 600Ω - 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℃ to 70℃ (-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)
Warranty	5 years for the full product

▪ Available Model

HM-P10D10-5018-F2/ELV

HM-P10D10-5018-F2/ELV(JY)

▪ Dimension



Unit:mm[Inch]

- Accessory
- Optional

HM-AIPU01/PY



HM-AIBR02/PY



DS-1701ZJ



HM-AIBR01/PY



HM-AFA01



HM-AICH01/PY



COMPLIANCE NOTICE: The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.

HIKMICRO

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