



# HIKMICRO

## PD120 Pyrometer



The HIKMICRO PD120 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°C~1800°C(932°F~3272°F) with high accuracy.

### ▪ Features

- Temperature measurement range: 500°C~1800°C(932°F~3272°F)
- Accuracy:  $\pm(0.3\%T_{mea}+1)^{\circ}\text{C}$  or  $\pm(0.3\%T_{mea}+1.8)^{\circ}\text{F}$ ,  $T_{mea}$  means "Current measured temperature"
- Resolution: 0.1°C/0.18°F
- Repeatability:  $\pm(0.1\%T_{mea}+1)^{\circ}\text{C}$  or  $\pm(0.1\%T_{mea}+1.8)^{\circ}\text{F}$ ,  $T_{mea}$  means "Current measured temperature"
- Optical Resolution (D:S): 100:1(90% energy)
- Spot Size: 3mm
- Focus Range: 0.3m~0.6m
- 2.4" OLCD screen with resolution 600\*448
- Protection Level: IP65
- 3 Ways of Sighting: Laser, visual display, eyepiece

## ▪ Specification

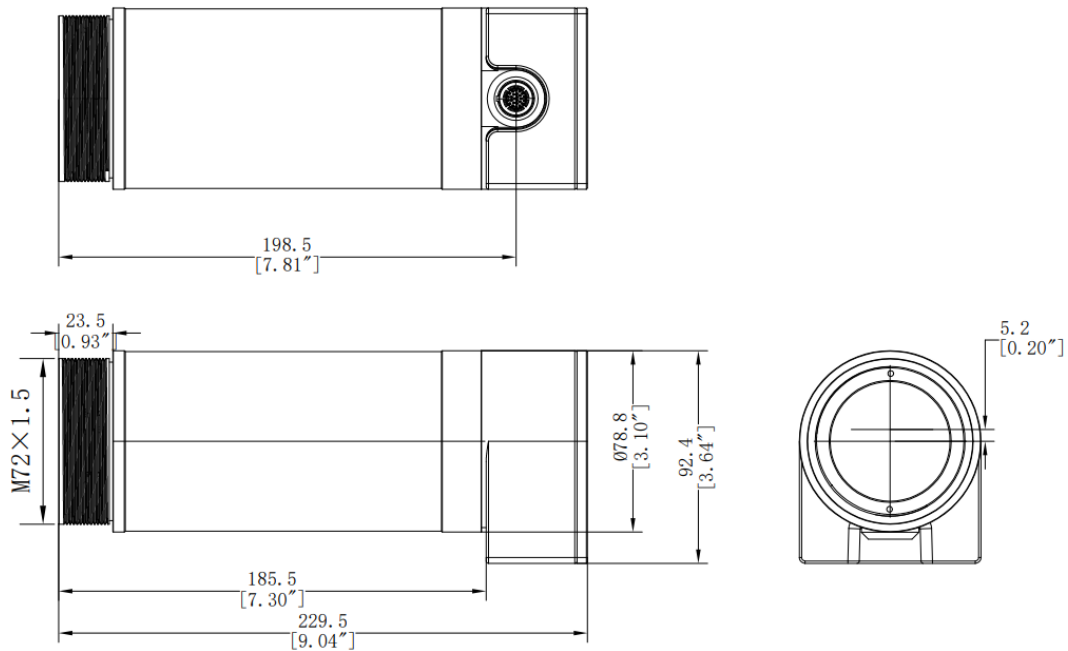
| Measurement Specifications |                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Spectral Response          | 0.8 $\mu$ m ~ 1.08 $\mu$ m                                                                                                          |
| Temperature Range          | 500°C~1800°C(932°F~3272°F)                                                                                                          |
| Accuracy                   | $\pm(0.3\%*T_{mea}+1)^{\circ}\text{C}$ or $\pm(0.3\%*T_{mea}+1.8)^{\circ}\text{F}$ , $T_{mea}$ means "Current measured temperature" |
| Resolution                 | 0.1°C/0.18°F                                                                                                                        |
| Repeatability              | $\pm(0.1\%*T_{mea}+1)^{\circ}\text{C}$ or $\pm(0.1\%*T_{mea}+1.8)^{\circ}\text{F}$ , $T_{mea}$ means "Current measured temperature" |
| Optical Resolution (D:S)   | 100:1 (90% energy)                                                                                                                  |
| Spot Size                  | 3mm                                                                                                                                 |
| 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                | 0.3m~0.6m                                                                                                                           |
| Visual                     |                                                                                                                                     |
| Field of View (FOV)        | 11° x 8°                                                                                                                            |
| Optical Resolution         | 2688*1944                                                                                                                           |
| Data Communication         |                                                                                                                                     |
| Analog Output              | Supports proportional output, 16-bit resolution, max load 600 $\Omega$ - 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)                              |
| Warranty  | 5 years for the full product                |

## ▪ Available Model

HM-P10D10-5018-F1/ELV

## ▪ Dimension



Unit:mm[Inch]

## ▪ Accessory

### ▪ Optional

HM-AIBR02/PY  
Adjustable Bracket for  
Pyrometer



HM-AIPU01/PY  
Air Purge for  
Pyrometer



DS-1701ZJ  
Wall Mount for Water-  
/Air-Cooled Housing



HM-AIBR01/PY  
Fixed Bracket for  
Pyrometer



HM-AICH01/PY  
Water-/Air-Cooled  
Housing for Pyrometer



