LAND®

AMETEK®



UNO

Smart high-precision pyrometers

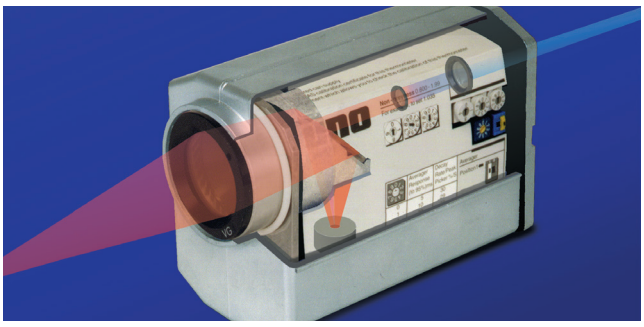
A non-contact infrared thermometer range designed for standalone use, UNO delivers precise, drift-free measurements for even the smallest target areas.

Delivering exceptional flexibility and accurate performance in OEM installations where continuous operation, quality control and process monitoring are paramount, UNO's precision measurement ensures high product integrity, maximum uptime and safe operation.

UNO thermometers do not require contact with the target object, so cannot disturb, damage, or contaminate the product or process. This ensures the ideal measurement solution for fast moving products; making it well suited for products that are or small, fragile, or in controlled atmosphere enclosures.

UNO thermometers are available in a standard range of through-the-lens sighting thermometers, and fiberoptic variants with laser sighting.

The rugged UNO range provides an affordable temperature measurement solution for the glass, hydrocarbon processing, industrial processing and minerals industries.



FEATURES & BENEFITS

- **Exceptional flexibilty** with a choice of single wavelength, ratio, fibroptic and fibroptic ratio models.
- **Dedicated optical characteristics** to suit the particular application.
- **Wide range of mountings & accessories available** to provide full mechanical and thermal protection of thermometer.
- **Low maintenance operation** to ensure continuous service in any process environment
- **Simple system intergration** via industry standard 4-20 mA output.

UNO is a stand alone radiation thermometer designed to deliver precise, drift-free measurements for a wide range of applications.

See degrees differently.

UNO PYROMETER SPECIFICATIONS – valid from 5% to 95% of measurement range

Model	Range	Wavelength µm	Field of View	Temperature Specified	Temperature Operating	Response Time T_{95}	Interchangeability	Repeatability	Accuracy(1)	Stability(2)
Standard Thermometers										
U1 600/1600C U1 1100/2900F	600 to 1600 °C 1100 to 2900 °F	1	100:1	0 to 70 °C 32 to 158 °F	-10 to 80 °C 14 to 176 °F	5 - 5000 ms	1 K	1 K	0.4 %K	0.2 K/K
U1 800/2600C U1 1500/4700F	800 to 2600 °C 1500 to 4700 °F	1	200:1	0 to 70 °C 32 to 158 °F	-10 to 80 °C 14 to 176 °F	5 - 5000 ms	1 K	2 K	0.7 %K	0.3 K/K
U2+ 300/1100C U2+ 600/2000F	300 to 1100 °C 600 to 2000 °F	1.6	100:1	0 to 60 °C 32 to 140 °F	-10 to 60 °C 14 to 140 °F	5 - 5000 ms	1 K	1 K	0.25 %K + 1 K	0.2 K/K
U4 50/250C U4 150/500F	50 to 250 °C 150 to 500 °F	2.4	30:1	5 to 45 °C 41 to 113 °F	0 to 50 °C 32 to 122 °F	100 - 5000 ms	1 K	1 K	3 K (2)	0.1 K/K
U4 150/550C U4 300/1000F	150 to 550 °C 300 to 1000 °F	2.4	100:1	5 to 45 °C 41 to 113 °F	0 to 50 °C 32 to 122 °F	100 - 5000 ms	1 K	1 K	4 K	0.1 K/K
U6+ 0/300C U6+ 50/600F	0 to 300 °C 50 to 600 °F	3 to 5	75:1	5 to 50 °C 41 to 122 °F	0 to 60 °C 32 to 140 °F	5 - 5000 ms	1 K	1 K	0.3 %K +2.5K	0.15 K/K(3)
U6+ 100/700C U6+ 200/1300F	100 to 700 °C 200 to 1300 °F	3 to 5	100:1	5 to 50 °C 41 to 122 °F	0 to 60 °C 32 to 140 °F	5 - 5000 ms	1 K	1 K	0.3 %K + 2 K	0.2 K/K
V1 600/1600C V1 1100/2900F	600 to 1600 °C 1100 to 2900 °F	0.85 & 1.1	50:1	0 to 50 °C 32 to 122 °F	-10 to 60 °C 14 to 140 °F	15 - 5000 ms	0.25 %K	1 K	0.65 %K	0.05 %K/K
V1 1000/2600C V1 1800/4700F	1000 to 2600 °C 1800 to 4700 °F	0.85 & 1.1	200:1	0 to 50 °C 32 to 122 °F	-10 to 60 °C 14 to 140 °F	15 - 5000 ms	0.45 %K	2 K	1.1 %K	0.1 %K/K
Fibre Optic Thermometers										
U1 600/1600CYL U1 1100/2900FYL	600 to 1600 °C 1100 to 2900 °F	1	25:1	0 to 70 °C 32 to 158 °F	-10 to 80 °C 14 to 176 °F	5 - 5000 ms	1 K	1 K	0.4 %K	0. 2K/K
U1 800/2600CYL U1 1500/4700FYL	800 to 2600 °C 1500 to 4700 °F	1	75:1	0 to 70 °C 32 to 158 °F	-10 to 80 °C 14 to 176 °F	5 - 5000 ms	1 K	2 K	0.7 %K	0.3 K/K
U2 300/1100CYL U2 600/2000FYL	300 to 1100 °C 600 to 2000 °F	1.6	25:1	0 to 50 °C 32 to 122 °F	-10 to 60 °C 14 to 140 °F	5 - 5000 ms	1 K	1 K	0.25 %K + 1 K	0.2 K/K
V1 600/1600CYL V1 1100/2900FYL	600 to 1600 °C 1100 to 2900 °F	0.85 & 1.1	25:1	0 to 50 °C 32 to 122 °F	0 to 50 °C 32 to 122 °F	15 - 5000 ms	0.25 %K	1 K	0.65 %K	0.05 %K/K
V1 1000/2600CYL V1 1800/4700FYL	1000 to 2600 °C 1800 to 4700 °F	0.85 & 1.1	75:1	0 to 50 °C 32 to 122 °F	0 to 50 °C 32 to 122 °F	15 - 5000 ms	0.25 %K	2 K	1.1%K	0.1 %K/K

1. Accuracy quoted to ITS90 with 100 ms averaging
2. Above 75 °C / 170 °F
3. 0.2 K/K for target temperature < 30 °C

LAND® AMETEK

CONTACT US
WEB: www.ametek-land.com
EMAIL: land.enquiry@ametek.com

We are fully committed to Quality Assurance. See all our accreditations at **AMETEK-LAND.COM/QUALITY**

MARCOMS_DOC-0067 UNO Brochure Rev 3 EN
Copyright © 2008-26 LAND Instruments International. Continuous product development may make it necessary to change these details without notice.