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Cyclops 160L

Portable industrial pyrometer

The Cyclops 160L series sets the industry standard for high-quality, portable, non-contact pyrometers. It is designed for a range industrial processing applications with a temperature range of 200 - 1400°C / 392 - 2552°F.

Using through the lens sighting, the single handed, ergonomic design enables you to make temperature measurements in harsh environments. The high quality fully focusable lenses ensure the smallest spot size measurements at any distance. On-board data-logging means accurate measurements are stored directly to the instrument.

Cyclops logger software enables data transfer to computers or mobile devices, displaying current readings, a table view, and a trend view.

Accessories include a heat-resistant jacket, waterproof carry case, and long eye relief eyepiece adapter for use with protective goggles or face shields.

Cyclops 160L is a general purpose, high precision pyrometer for industrial processing applications such as heat treament, annealing and welding.



FEATURES & BENEFITS

- **Rugged instrument casing** ensures the Cyclops can withstand harsh environments for extended periods, protecting against high temperatures, bumps and drops.
- **Standard Bluetooth® and USB connectivity** allows wireless and USB options for communicating straight to a mobile device or PC.
- **Traceable calibration available** to guarantee your measurement accuracy.
- **Free logger software** provides data analysis to identify on-site trends, improve process efficiency or protect assets and prolong their lifecycles.
- **Internal Data Logging** of up to 9999 readings and 9 routes, eliminating the need to for seperate storage device.

See degrees differently.

SPECIFICATIONS

	Cyclops 160L
Measurement Range:	200 to 1400°C / 392 to 2552°F
Spectral response:	1.6 µm with advanced spectral filtering
Measuring modes:	Continuous, Peak, Valley and Average
Display:	External backlit LCD display 5-digit LCD in viewfinder
Data logging:	9999 readings and 9 routes internally; Mobile or PC logger software (via Bluetooth® or USB connector)
Data logging modes:	Classic, Burst, Latched, Route
Focusing Range:	1 m / 39.3 in. to infinity 450 to 620 mm / 17.7 to 24.5 in. and 215 mm / 8.5 in. fixed focus - with optional close-up lens
Repeatability:	<1 °C / 2 °F
Optical system:	9° field of view; eyepiece adjustable -3.75 to +2.5 diopters
Accuracy:	0.25 %K +2°C
Minimum target size:	5 mm at 1 m / 0.19 in. at 39.3 in., 2.0 mm / 0.08 in. and 0.5 mm / 0.2 in. - with optional close up lens
Emissivity adjustment:	0.10 to 1.20 in 0.01 step graduations
Display update time:	0.5 s
Response Time:	30 ms
Measurement resolution:	0.1 °C / 1 °F
Measurement field of view:	180:1 circular
Operating temp range:	0 to 50 °C / 32 to 122 °F
Power Req.:	One MN1604 / 6LR61 / PP3 Battery or USB
Weight:	0.83 kg / 1.8 lb.
Sealing:	IP40
Output:	Bluetooth®/USB Connector
Free Data-logger Software:	Available at https://www.ametek-land.com/products/software/cyclopslogger; For Android devices, the Cyclops Data Logger App is available through the Google Play Store
Standard accessories:	Lens cap, protection window/filter, battery, wrist strap, USB cable, heat protection jacket
Optional accessories:	Waterproof carry case, long eye relief eyepiece

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