

BLUETOOTH LED DISPLAY



CYCLOPS L PYROMETER INTEGRATION
FOR REAL-TIME TEMPERATURE DISPLAY

① RPI 10000 BT



LAND
AMETEK[®]
PROCESS & ANALYTICAL INSTRUMENTS



QUALITY CUSTOMER SOLUTIONS

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CYCLOPS L INTEGRATION FOR REAL-TIME TEMPERATURE DISPLAY

AMETEK LAND HAS BEEN MANUFACTURING PRECISION MEASURING EQUIPMENT SINCE 1947.

WE ARE SPECIALISTS IN NON-CONTACT TEMPERATURE MEASUREMENT AND COMBUSTION MONITORING WITH APPLICATIONS ACROSS DIVERSE INDUSTRIES SUCH AS STEEL AND GLASS MAKING, POWER GENERATION AND CEMENT MANUFACTURE.

As part of AMETEK Process & Analytical Instruments Division since 2006, our customers benefit from the worldwide AMETEK sales and service team.

The Cyclops L family is the industry leading standard for high quality portable non-contact pyrometers and we now offer a fully-compatible real-time temperature display solution.

The Model RPI 10000 BT is a LED display unit, which connects via Bluetooth to the Cyclops L, to display instant temperature measurement updates.

Easy visual validation of temperature data allows for simple quality and process control. By using high and out-of-range readings, you can manage furnace power to optimise foundry performance and output. For data validation, the internal data logging of Cyclops L pyrometer can be used.

The Cyclops L and LED display unit maintain connectivity for up to approx. 50 metres, allowing the pyrometer to be

used easily throughout the foundry from furnace location until the end of the last pouring temperature.

Conventional pyrometers with cable connections can present a trip hazard, whereas with wireless Bluetooth® connectivity this safety issue is removed and accidents are prevented. Additionally there are no costly worn or damaged cables to replace.

The LED display unit is compatible with all Cyclops L models and with easily available 9V Li-ion rechargeable batteries and adapter allows for simple, trouble-free operation. Optional features* include:

- Temperature data storage within Bluetooth LED display unit.
- Real-time data acquisition software for remote monitoring and data download via a web browser using IP address.
- Integration of temperature data with SCADA systems via 4-20mA output from display unit.
- Mobile application for real-time monitoring.

**Additional features available upon request.*

BATTERY PACKAGE

A Li-ion battery package is supplied as standard and includes 4 high quality lithium-ion rechargeable batteries with charging unit. With improved low self-discharge, the batteries maintain 75% of capacity after 3 years of non-use. The pre-charged batteries can be re-charged up to 1200 times.



LOW ALARM CONDITION



Cyclops L



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Bluetooth Communication

HOW IT WORKS

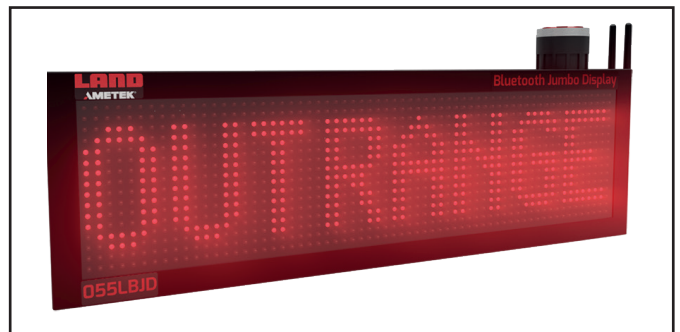
- 1: Display unit receives data from Cyclops L pyrometer through Bluetooth wireless communication
- 2: 4" 7 segment LED display will show live temperature as received from the Cyclops L
- 3: Alarm temperature limit can be set in LED display unit through LAN -PC interface using PC browser
- 4: 120Db output audible alarm is connected to LED display unit
- 5: When temperature crosses set alarm limit (low/high) audible alarm will be ON for 5 seconds as default
- 6: Audible alarm will have a button to stop manually (optional)



HIGH ALARM CONDITION



TEMPERATURE OUT OF RANGE (display can be customized per user)



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SPECIFICATIONS

Bluetooth Display Unit:	Receives data from Cyclops L Pyrometer through Bluetooth 4.1 wireless Communication Bluetooth Low Energy (BLE); Micro SD Slot
Audible Alarm Sound Output:	120 db up to 100 m / 328 ft
LED Display:	LED module with 10.16 cm / 4 in high segments
Housing:	Indoor Cabinet
Color:	Red high brightness
Life Span:	> 100,000 hours
Viewing Angle:	110° (horizontal); 70° (vertical)



PERFORMANCE SERVICES

AMETEK Land's AMECare® Performance Services ensure peak performance and maximum return on investment over the life of your equipment.

We will deliver this by:

- Proactively maintaining your equipment to maximize availability.
- Optimizing solutions to meet your unique applications.
- Enhancing user skills by providing access to product and application experts.

AMETEK Land's global service network provides unparalleled after-sales services to ensure you get the best performance and value from your AMETEK Land products. Our dedicated service centre teams and on-site engineers are trained to deliver the highest standard of commissioning, maintenance and after-sales support.

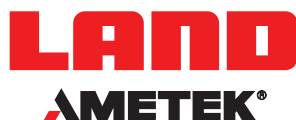
SEE OUR OTHER RELATED LITERATURE FOR THE CYCLOPS L:



CYCLOPS L PORTABLE PYROMETERS

DISCOVER HOW OUR BROAD RANGE OF NON-CONTACT TEMPERATURE MEASUREMENT AND COMBUSTION & EMISSIONS PRODUCTS OFFER A SOLUTION FOR YOUR PROCESS

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