

CYCLOPS 055L-2F

MELTMASTER - HIGH PRECISION PORTABLE
NON-CONTACT THERMOMETER FOR LIQUID METALS

 1000 to 2000 °C / 1832 to 3632 °F

AMETEK LAND HAS BEEN MANUFACTURING PRECISION MEASURING EQUIPMENT SINCE 1947. WE ARE SPECIALISTS IN NON-CONTACT TEMPERATURE MEASUREMENT AND COMBUSTION MONITORING WITH OUR PRODUCTS FINDING 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 055L-2F Meltmaster is a dedicated high precision, portable non-contact pyrometer, designed for accurate measurement of liquid metal temperatures in the range 1000 to 2000°C / 1832 to 3632°F.

- The measured temperature is displayed in four simultaneous modes including the unique advanced 'Meltmaster' mode.
- Accurate sighting is ensured by the clear, wide angle (9°) field of view and small, clearly defined (1/3°) measurement area. Focusing is fixed at 5m / 16ft.
- All processed temperature values are shown continuously on the display when the trigger is pressed – Peak | Continuous | Valley | Meltmaster
- Four trigger operating modes for datalogging are available from logging a measurement for each trigger release to precisely executing pre-configured routes for consistent, long-term readings.
- Emissivity compensation is provided via the icon-based menu system. The operating waveband has been carefully chosen to minimize errors due to uncertainty in emissivity and the effects of atmospheric vapor components such as steam or hot sparks.
- With on-board storage the Cyclops 055L-2F provides fast, simple data logging with Bluetooth® and USB connectivity to download this data to PC or Mobile device for analysis and trending.



MADE IN INDIA

THE C055L-2F SIGNIFICANTLY REDUCES THE USE AND COST OF DISPOSABLE "DIP" TYPE THERMOCOUPLES.



ADDITIONAL COMFORT & PROTECTION

Fitted with an internal, neutral density filter within the visual sighting system, it provides you with some additional eye comfort when viewing high temperatures, without affecting the brightness or clarity of the internal temperature display. It also features a rugged instrument casing, which is designed to withstand harsh environments for extended periods and a lens protector, which maintains the optics in good condition.

OPTIONAL BLUETOOTH DISPLAY

The Bluetooth® display offers you greater convenient when accessing data. The 4" 7 segment 8 digit LED Bluetooth® unit displays instant temperature measurement updates, allowing for simple quality and process control and management of furnace power to optimise foundry performance and output. It also comes with flexible options for data transfer and external logging.

ISO/IEC 17025 CERTIFICATION

AMETEK Land's India Laboratory, which is accredited by NABL (National Accreditation Board for Testing and Calibration Laboratories), will calibrate each Cyclops 055L-2F against the ISO/IEC 17025:2005 standard. It will include this free certification, which is valid for up to 12 months, during the warranty period to give you a guarantee of measurement accuracy.

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SPECIFICATIONS

Measurement range:	1000 to 2000 °C / 1832 to 3632 °F
Display:	4-digit LCD in viewfinder; external backlit LCD display
Measuring modes:	Continuous, Peak, Valley and advanced Meltmaster
Data logging:	9999 readings and 4 routes internally; Mobile (4GB standard storage) or PC logger software (via Bluetooth® or USB connector)
Data logging modes:	Classic, Burst, Latched, Route
Optical system:	9° field of view; eyepiece adjustable -3.75 to +2.5 diopters
Focusing range:	Fixed focus, nominally at 5 m / 197 in. from thermometer body datum
Minimum target size:	Parallel 28 mm / 1.1 in target spot diameter from lens to 5 m / 197 in.
Spectral response	Nominally 0.55 µm
Emissivity adjustment:	0.10 to 1.20 in 0.01 step graduations
Response time:	30 ms
Display update time:	0.5 s
Accuracy:	<0.5% (K) of reading
Measurement resolution:	0.1 °C / 1 °F
Measurement field of view:	Fixed Focus
Repeatability:	<1 °C / 2 °F
Operating temp range:	0 to 50 °C / 32 to 122 °F
Power requirement:	One MN1604 / 6LR61 / PP3 Battery or USB
Output:	Bluetooth®/USB Connector
Weight:	0.83 kg / 1.8 lb.
Sealing:	IP40
Standard accessories:	Lens cap, protection window/filter, battery, wrist strap, USB cable, heat protection jacket
Optional accessories:	Waterproof carry case, Long eye relief eyepiece
Free Data-Logger Software:	Available at www.ametek-land.com/products/software/cyclopslogger

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**TO ORDER YOUR MADE IN INDIA CYCLOPS 055L-2F
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