

PRODUCT GUIDE 2014

OUR INSTRUMENTATION AT A GLANCE
QUALITY CUSTOMER SOLUTIONS

LAND
AMETEK®
PROCESS & ANALYTICAL INSTRUMENTS



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AMETEK LAND HAS BEEN BUILDING PRECISION MEASUREMENT INSTRUMENTATION SINCE 1947.

We are specialists in non-contact temperature measurement and combustion monitoring with our products applied across diverse industries such as steel and glassmaking, electricity 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.

PRODUCT KEY



Fixed Spot Thermometers



Portables



Calibration Services



Linescanning



Process Imaging



Combustion & Emission Monitoring

ALUMINUM



APPLICATION DEDICATED

Single spot non-contact thermometers designed for specific applications. For extruders, the ABTS for billets, the ADTS for die preheating, the AETS at the extruder exit and the AQTS for the quench exit. In the strip mill, the ASTS at the mill entry and mill exit, and the ASPS for the Coiler.



ARC

Low temperature, rugged process thermal imager. Used in the cold rolling mill.



LANCOM 4

Portable gas analyzer featuring up to 9 sensors for emissions measurement and combustion optimization. Generally used on steam boilers.



PLASTICS



LSP-HD

High speed linescanner providing detailed thermal images. LSP-HD 60 used for thermoforming; LSP-HD 61 used for extruders and PET Preforms; and LSP-HD 71 used for thin plastics.



STEEL



APPLICATION DEDICATED

Single spot non-contact thermometers designed for specific applications. Systems used: Stove Dome, Ladle Safety, Ladle Monitoring, Spray Chamber Probe, Furnace Temperature System, Understrip Temperature System, Roll Nip System, Galvanneal Strip Thermometer, Slag Detection System (outside of the US).



IQ SERIES/SOLONET

Single spot thermometers with high accuracy and are cost efficient. IQ R and IQ 1 used at the caster exit, crop shear, rougher and finisher; IQ 2 used for continuous annealing lines.



SYSTEM 4

Single spot non-contact thermometers with high accuracy and quick response. M05 model is used for the blast furnace tap measurement; M1, R1, U1, V1 used for the caster exit, crop shear, rougher and finisher; M2 and M3 used at the coiler; M2 and U2 used at the continuous annealing line; and the M1 Target Orbiter used at the Stelmor coiler.



CYCLOPS

Handheld non-contact spot thermometers with high accuracy.

- C100B used in coke oven battery flues;
- C055B used for the blast furnace iron stream;
- C390B used for the reheat furnace using dirty fuels.





LSP-HD

High speed linescanner providing detailed thermal images. LSP-HD 11 used at the caster exit; LSPHD 10 used at the crop shear, rougher, and finisher; LSP-HD 21 used at the coiler, continuous annealing and hot dip galv line snout; LSP-HD 61 used at the top roll.



ARC

Low temperature, rugged process thermal imager. Used for ladles, refractory wear and safety.



FTI-Eb

A Process thermal imager used in the reheat furnace using dirty fuels.



NIR

High temperature process imager providing high resolution images. Used at the caster exit and crop shear.



NIR-b

Short wavelength non-contact borescope thermal imager with high resolution images and through-the-wall design to provide a wide 90 degree view. Used in natural gas fired reheat furnaces.



4200

Accurate and stable opacity monitor for non-compliance applications. Used for stack gas emissions.



4500 MkIII

The best opacity monitor for compliance measurements to PS-1 and ASTM D6216. Installed on the stack or on a duct leading to the stack.



LANCOM 4

Portable gas analyzer featuring up to 9 sensors for emissions measurement and combustion optimization. Used for stack gas emissions.



PRODUCT KEY

- | | |
|---|--|
|  Fixed Spot Thermometers |  Linescanning |
|  Portables |  Process Imaging |
|  Calibration Services |  Combustion & Emission Monitoring |

"THE CYCLOPS FAMILY IS THE INDUSTRY LEADING STANDARD FOR HIGH QUALITY PORTABLE NON-CONTACT THERMOMETERS."

GLASS

APPLICATION DEDICATED

Single spot non-contact thermometers designed for specific applications. Model FG for forehearth; FLT5A for floatline lehrs; Glass Mold Thermometer - GMT; Vapor Deposition Monitoring - VDT.



IQ SERIES/ SOLONET

Single spot thermometers with high accuracy and are cost efficient. IQ 5 used at the tin bath.



SYSTEM 4

Single spot non-contact thermometers with high accuracy and quick response. M1 is used in the melt tank; M1 Fiberoptic is used at the refiner, canal and gob; M5 and U5 used at the tin bath.



CYCLOPS

Handheld non-contact spot thermometers with high accuracy. C100B used for the melt tank port arch and bridge wall.



LSP-HD

High speed linescanner providing detailed thermal images. LSP-HD 50 used on the lehr and for tempering operations.



NIR-b

Short wavelength non-contact borescope thermal imager with high resolution images and through-the-wall design to provide a wide 90 degree view. Used in the melt tank.



4200

Accurate and stable opacity monitor for non-compliance applications. Used for stack gas emissions.



4500 MkIII

The best opacity monitor for compliance measurements to PS-1 and ASTM D6216. Used for stack gas emissions.



LANCOM 4

Portable gas analyzer featuring up to 9 sensors for emissions measurement and combustion optimization. Used for stack gas emissions.



WDG 1200-1210

In situ oxygen probe for combustion optimization, featuring integrated control and display electronics. Installed on the stack.



POWER GENERATION

APPLICATION DEDICATED

Single spot non-contact thermometers designed for specific applications. CDA used for coal fired boilers.



HotSpotIR

High speed linescanner which detects small, hot objects; high speed alarms. Used for detecting small hot inclusions on coal conveyors.



FTI-Eb

A process thermal imager used for coal fired boilers to check boiler tube and refractory deterioration and burner performance.



4200

Accurate and stable opacity monitor for non-compliance applications. Used in ducts leading to the stack.



4500 MkIII

The best opacity monitor for compliance measurements to PS-1 and ASTM D6216. Installed on the stack or on a duct leading to the stack.



FGA 900 SERIES

Compact CEMS for gas-fired and other low-sulphur applications. Used for stack gas emissions monitoring.



LANCOM 4

Portable gas analyzer featuring up to 9 sensors for emissions measurement and combustion optimization. Used on the stack.



LANCOM 200

A portable sulphuric acid dewpoint temperature analyzer used to minimize acid corrosion in the stack or downstream of the air preheater in oil-fired boilers.



MILLWATCH/ SILOWATCH

Carbon monoxide monitors for early warning of possible fires in coal mills and storage silos.



WDG 1200-1210

In situ oxygen probe for combustion optimization, featuring integrated control and display electronics. Mounted on the stack or downstream of particulate removal equipment.



PRODUCT KEY

-  Fixed Spot Thermometers
-  Portables
-  Calibration Services
-  Linescanning
-  Process Imaging
-  Combustion & Emission Monitoring

"THE LATEST TECHNOLOGIES UTILIZED IN SPOT MAKE NON-CONTACT TEMPERATURE MEASUREMENT ACCURATE, FLEXIBLE AND EASY TO USE." – SPOT R100

FORGING/HEAT TREATMENT

IQ SERIES/ SOLONET

Single spot thermometers with high accuracy and are cost efficient. IQ 1 used at the forging press.



SPOT R100

Single spot non-contact thermometers with multiple operating modes and outputs. Used at the forging press.



SYSTEM 4

Single spot non-contact thermometers with high accuracy and quick response. M1 and R1 thermometers used at the forging press; the R1 and U1 used in the reheat furnace.



CYCLOPS

Handheld non-contact spot thermometers with high accuracy. The C100B is used at the forging press and reheat furnace.



NIR-b

Short wavelength non-contact borescope thermal imager with high resolution images and through-the-wall design to provide a wide 90 degree view. Used in natural gas fired reheat furnaces.



MINERALS

4200

Accurate and stable opacity monitor for non-compliance applications. Used for stack gas emissions.



4500 MkIII

The best opacity monitor for compliance measurements to PS-1 and ASTM D6216.



APPLICATION DEDICATED

The Critical Vessel Monitoring System detects rapidly developing hot areas for plant safety.



LANCOM 4

Portable gas analyzer featuring up to 9 sensors for emissions measurement and combustion optimization. Used for gas stack emissions.



MILLWATCH/ SILOWATCH

Carbon monoxide monitors for early warning of possible fires in coal mills and storage silos.





POLYSILICON

SYSTEM 4

Single spot non-contact thermometers with high accuracy and quick response. The R1 Fiberoptic used for monitoring ingot growth.



NIR

High temperature process imager providing high resolution images. Used for monitoring ingot growth.



INCINERATORS

APPLICATION DEDICATED

Single spot non-contact thermometers designed for specific applications. The CDA Thermometer is durable and long-lasting for furnace atmosphere measurements.



FTI-Eb

A process thermal imager used to see through combustion products inside the furnace atmosphere.



PETROCHEMICALS

NIR-b

Short wavelength non-contact borescope thermal imager with high resolution images and through-the-wall design to provide a wide 90 degree view. Used for tube measurement in heaters and reformers.



CYCLOPS

Handheld non-contact spot thermometers with high accuracy. Cyclops 390B used in heaters and reformers for tube measurement.



FTI-Eb

Process thermal imager. Used for tube measurement in heaters with dirty fuels.



APPLICATION DEDICATED

The Critical Vessel Monitoring System detects rapidly developing hot areas for plant safety.



PAPER / NON WOVENS

(CONTINUED ON NEXT PAGE)

HotSpotIR

High speed linescanner which detects small, hot objects; high speed alarms. Used for supercalender roll cover monitoring.



LSP-HD

High speed linescanner providing detailed thermal images. LSP-HD 60 used at the dryer exit and for supercalender roll cover monitoring.



PAPER/NON WOVENS

4200

Accurate and stable opacity monitor for non-compliance applications. Used in the stack



4500 MkIII

The best opacity monitor for compliance measurements to PS-1 and ASTM D6216. Used for stack gas monitoring.



FGA 900 SERIES

Compact CEMS for gas-fired and other low-sulphur applications. Used for stack emissions measurement.



LANCOM 4

Portable gas analyzer featuring up to 9 sensors for emissions measurement and combustion optimization. Used for stack emission monitoring.



WDG 1200-1210

In situ oxygen probe for combustion optimization, featuring integrated control and display electronics. Can be installed on the stack or downstream of particulate control equipment.



CEMENT

HotSpotIR

High speed linescanner which detects small, hot objects; high speed alarms. Used Clinker on conveyors.



NIR-b

Short wavelength non-contact borescope thermal imager with high resolution images and through-the-wall design to provide a wide 90 degree view. Used in the kiln burning zone.



SYSTEM 4

Single spot non-contact thermometers with high accuracy and quick response. R1 and M1 models used in the kiln burning zone. RT8A model used for Clinker measurement on conveyors.



4500 MkIII

The best opacity monitor for compliance measurements to PS-1 and ASTM D6216.



MILLWATCH/ SILOWATCH

Carbon monoxide monitors for early warning of possible fires in coal mills and storage silos.



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Applies in the UK



Applies in the US

