LAND

IQ series

Rugged, Compact, Accurate.
High Temperature Spot Thermometers

The Land IQ series are compact, rugged, industrial thermometers designed to meet the needs of high temperature process control applications.

IQ series thermometers feature an all metal design with integrated water cooling, air purge and screw terminal connections to facilitiate simple and cost effective operation.

Thermometers can be configured using any permutation of four wavelengths, four feature levels and four focus distances to suit your requirements.

Accessories

- Tripod Mount
- Dual & Single Axis mounting brackets
- Power Supply
- Digital Indicator
- PC Setup Software (free issue with Enhanced and Premium versions only)

Features & Benefits

- 4 temperature/wavelength variants - Configurable to suit your application
- Rugged all metal design - Suitable for harsh industrial environments
- Integrated air purge and water-cooling - Protects instrument under all conditions
- Plug and Play four wire operation - Zero configuration
- Advanced signal processing - Simplifies complex process control applications
- Peer-to-peer & multidrop RS485 digital interface - Digital process control
- 2 x Alarm Relays - Protect your plant and instrument
- Compact Size - Ideal for constrained measurement positions
- Simple screw terminal connection - Simplifies installation. Use existing wiring.

LAND

Non-Contact Temperature Measurement Solutions

LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT
1mW MAX OUTPUT AT 650nm
IEC 60825-1:2007

An AMETEK Company

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UKAS CALIBRATION 0034

UKAS QUALITY MANAGEMENT 001

Applies in the UK

LABORATORY ACCREDITATION BUREAU ACCREDITED ISO/IEC 17025:2005

REGISTERED ISO 9001 MANAGEMENT SYSTEM

Applies in the USA

Specifications

Model Range	IQ1	IQ2	IQ5	IQR
Temperature Range	1022 to 3182°F 550 to 1750°C	482 to 2372°F 250 to 1300°C	392 to 2012°F 200 to 1100°C	1292 to 3182°F 700 to 1750°C
Spectral Response	1µm	1.6µm	5µm	1µm Ratio
Field of View (90%)	110:1	110:1	60:1	110:1
Response Time	10ms	10ms	50ms	10ms
Accuracy	0.3%+1°C	2°C	0.35%+1°C	0.6%+1.5°C
Sighting	Laser defining Optical Axis (Option)			
Ambient Limit	32 to 158°F (Operating)			
EMC	EN 61326			
Sealing	IP65 / NEMA 4X			
Power Supply	18 to 30Vdc			

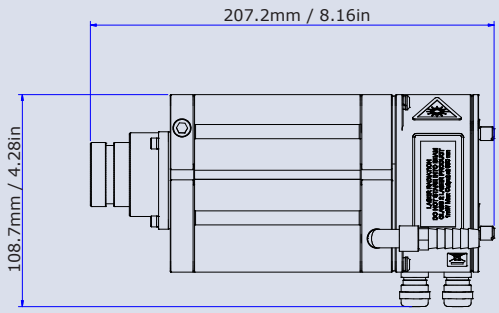
Ordering Information

Series Name	Wavelength		Model		Focus Distance	
IQ	1	1.0µm	B	Basic	250	250mm / 10in
	2	1.6µm	S	Standard	500	500mm / 20in
	5	5.0µm	E	Enhanced	1000	1000mm / 40in
	R	1µm Ratio	P	Premium	Infinity	Infinity

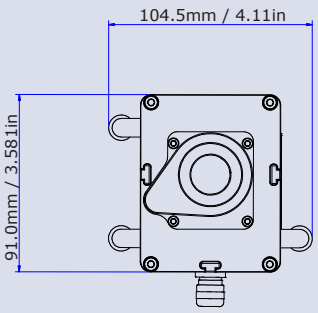
Feature	B	S	E	P
Rugged All Metal Design (IP65)	•	•	•	•
Integrated Air Purge And Water Cooling	•	•	•	•
Simple Screw Terminal Connection	•	•	•	•
Emissivity Compensated 4-20Ma Output	•	•	•	•
Adjustable Emissivity (0.1 To 1.0)	•	•	•	•
Factory Selectable Focus	•	•	•	•
Laser Alignment		•	•	•
Peer-To-Peer & Multidrop RS485 Digital Interface			•	•
Advanced Signal Processing			•	•
2 x Alarm Relays			•	•
User Selectable Focus				•

Dimensions

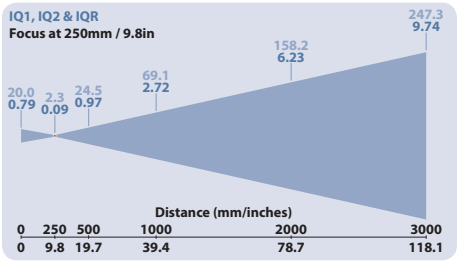
Side View

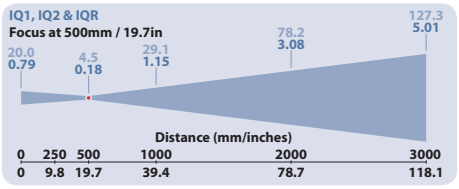


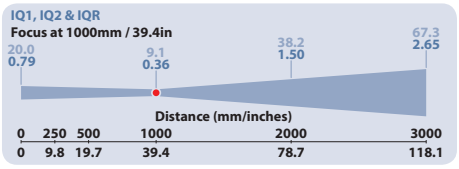
Front View

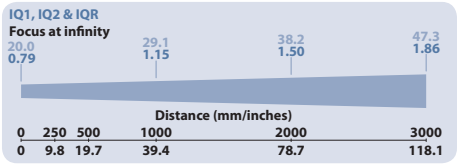


IQ1, IQ2, IQR FOV

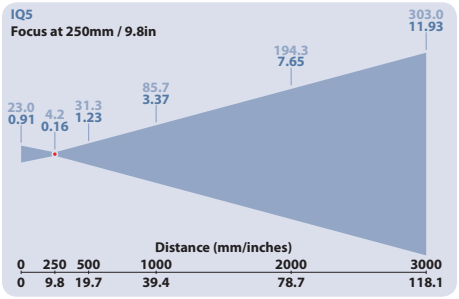


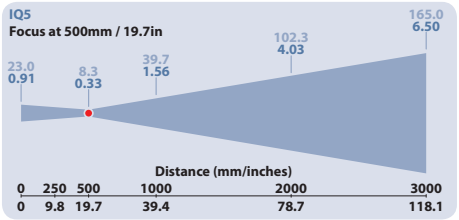


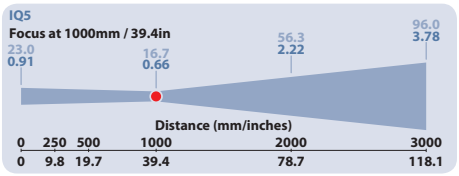


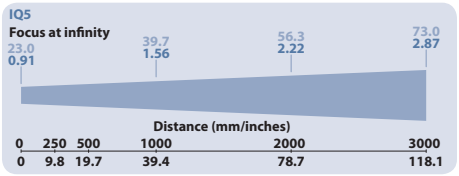


IQ5 FOV









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Continuous product development may make it necessary to change these details without notice.