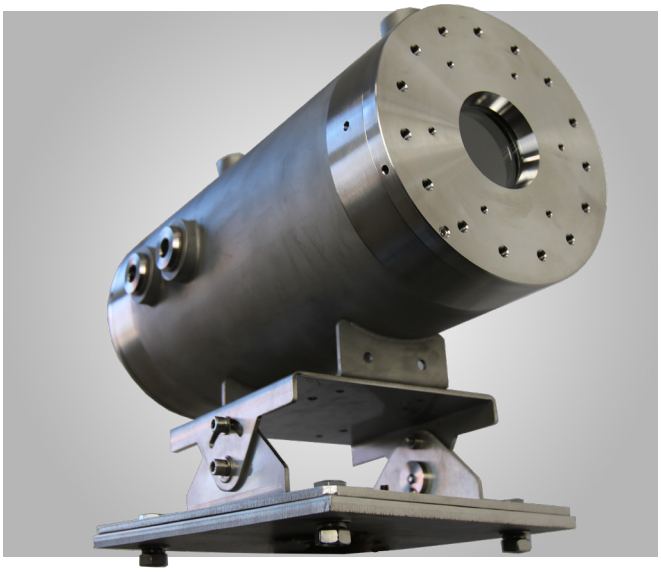
LAND®
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EXSH1 EX SPOT+ HOUSING

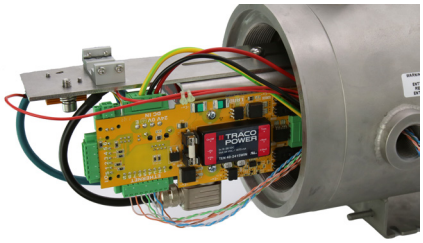
Hazardous area enclosure for ex spot+ pyrometer

With increasing demand for products to work in hazardous conditions, our non contact infrared pyrometers play an important role in modern industrial processing.

The new EXSH1 flame-proof housing allows EX SPOT+ pyrometers to be used in hazardous areas. Its high specification means that it is suitable for use in almost any application in the harshest of environmental conditions. Multiplecertifications mean that a common specification can be used for worldwide applications, greatly simplifying the task of specifying and quoting the product.

The enclosure has a certified temperature range of -40 to +70 °C (-40 to 158 °F).

Ingress protection to IP66 and IP68 means that it can be exposed to dust, water immersion and high-pressure water jets. The enclosure is manufactured from 316 / 316L stainless steel and is highly resistant to corrosion.



TYPICAL APPLICATIONS
Continuous annealing lines, semiconductor growth, HPI and chemical applications

FEATURES & BENEFITS

- **Hazardous installation -** Ideal for installation in the harshest environments including those where a high probability of explosive mixtures may be present.
- **Wide temperature range -** The system can be installed in a vast range of areas where temperature may affect unprotected products.
- **Suitable for gas and dust hazards -** The system is certified for use in areas with dust and gas hazards.
- **High levels of protection -** Extremely high degree of ingress protection, and highly resistant to corrosion.
- **Gridless design-**The window does not require a protective grid, allowing an unobstructed field of view.
- **Safety enclosure-** The enclosure does not require purge air for safety.
- **Accessories-** A range of mounting accessories available to suit many industrial applications.

SPECIFICATIONS

Model	Measuring Range	Single - Multi	Wavelength µm
Ex M100	550 to 1800 °C / 1022 to 3272 °F 700 to 3500 °C / 1292 to 6332 °F	Mono	1.0 µm
Ex M160	250 to 1600 °C / 482 to 2912 °F	Mono	1.6 µm
Ex M210	50 to 1100 °C / 122 to 2012 °F	Mono	2.3 µm
Ex M390	150 - 1800 °C / 302 - 3272 °F	Mono	3.9 µm
Ex M390 HD	300 -1800 °C / 572 - 3272 °F	Mono	3.9 µm
Ex R100	400 to 1800 °C / 752 to 3272 °F 700 to 3500 °C / 1292 to 6332 °F	Multi - Ratio & Mono	1.0 & 1.2 µm
Ex R160	250 to 1600 °C / 482 to 2912 °F	Multi - Ratio & Mono	1.0 & 1.5 µm
Ex R210	125 to 1100 °C / 257 to 2012 °F	Multi - Ratio & Mono	2.1 & 2.4 µm
EX GS	200 to 1000 °C / 392 to 1832 °F	Application specific for galvanizing and galvannealing	

Refer to SPOT+ brochure for full specifications

Certification	Zone	Marking	Certified Ambient Temperature	Functional Ambient Temperature
ATEX, IECEx and UKEX	1 & 21	II 2 (1) G D Ex db [op is Ga] IIC T6 Gb Ex tb [op is Da] IIIC T85C Db	Ta= -40 °C to +70 °C	-40 °C to +50 °C (No cooling) To +70 °C (Water or Air cooling)
	2 & 22	II 3 (1) G D Ex db [op is Ga] IIC T6…T3 Gc Ex tc [op is Da] IIIC T85…160 C Dc	Ta= -40 °C to +70 °C	-40 °C to +50 °C (No cooling) To +125 °C (Air cooled) To +160 °C (Water cooled)

Note: The maximum temperature is limited by the function of THE SPOT+. The enclosure remains safe at a higher temperature as shown in the markings.

SPECIFICATIONS	
Compatibility:	Ex SPOT+ M100, Ex SPOT+ M160, Ex SPOT+ M210, Ex SPOT+ M390, Ex SPOT+ M390 HD, Ex SPOT+ R100, Ex SPOT+ R160, Ex SPOT+ R210, Ex SPOT+ GS Note: Existing SPOT+ pyrometers cannot be retrofitted to the EXSH1 housing
Dimensions:	Ø168 mm, 356 mm Length
Power Rating:	19 – 26.4 Vdc, 2.3 A Max
Weight:	20 kg maximum
Material:	Stainless steel 316 / 316L, sapphire window
Certified Ambient Temperature:	ATEX, IECEx, UKEX (Safety) **Zones 1, 21, 2, 22** -40 to +70 °C (-40 to 158 °F)
Functional Ambient Temperature:	**Zone 1, 21** -40 to +50 °C (No cooling) To +70 °C (Water or Air cooling) **Zone 2, 22** -40 to +50 °C (No cooling) To +125 °C (Air cooled) To +160 °C (Water cooled)
Storage Temperature:	-20 to +70 °C
Environmental Rating:	IP66 / IP68 (2 m, 24 hr)
Compliance:	EN IEC 60079-0, IEC 60079-1, EN 60079-1, IEC 60079-31, EN 60079-31, IEC 61010-1, (EMC) EN 61326-1

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We are fully committed to Quality Assurance. See all our accreditations at **AMETEK-LAND.COM/QUALITY**

MARCOMS_DOC-0100 EXSH1 EXSPOT+ Housing Brochure EN Rev 1 EN

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