



SPOT+ GS

Application pyrometer for galvanised steel strip

LAND's SPOT+ GS pyrometer combines advanced non-contact technology with specialised algorithms to deliver precise temperature readings for galvanised and galvanized steel strips, ensuring accurate monitoring of the coating process for better product quality. Continuous online temperature measurement allows process control systems to quickly adapt to changes in strip dimensions or coating weights during customer order transitions.

The GS+ algorithm is dedicated to galvanised and galvanized surfaces and extends functionality to molten zinc surfaces at the zinc pot exit.

SPOT+ supports multiple communication interfaces, making it ideal for industrial internet of things (IIoT) connections. It works with EtherNet/IP, REST API, and Modbus TCP/IP protocols. Its built-in web server allows configuration and diagnostics via any web browser.

LAND's SPOTPro software further enables quick connection, data logging, and configurable analysis through an intuitive interface. It simplifies installation and provides graphical and tabular data views to analyse long-term trends and patterns. Operators can remotely adjust pyrometer settings, ensuring precise temperature control without needing to be on-site.



FEATURES & BENEFITS

- **Specialised galvanneal and galvanised algorithms** provide accurate digital temperature readings from GS algorithms enabling live process control.
- **Single sensor solution** is ideal for use with customer PLCs or DCS systems with no requirement for a separate processor, making it easy to implement in small or large organisations, and the same instrument can be used for different processes.
- **Durable sapphire protection window** prevents scratches, solvents and can be easily cleaned with a soft cloth.
- **SPOTViewer's advanced software** provides remote display and data logging for a SPOT+ pyrometer.
- **Modbus TCP/IP** is a widely used and popular industrial Ethernet protocol.

SPOT + GS is a high precision digital pyrometer that offers accurate temperature measurement of galvanised and galvanized steel.

See degrees differently.

SPECIFICATIONS

	SPOT+ GS
Measurement Range:	200 -1000 °C / 392-1832 °F on highly reflective liquid / galvanised surfaces 125 to 1000 °C / 257 to 1832 °F on higher emissivity galvanized surfaces ($\epsilon > 0.5$)
Field of View (90% of energy):	60:1
Detector Type:	Application specific selected range of narrow wavelength bands designed to optimise temperature accuracy for the measurement of Galvanized and Galvanised Strip
Display:	Local display with image streaming
Settings:	Configure locally using the pyrometer interface or remotely (using the web server or SPOTPro). Mode, current output range, alarm logic output and thresholds, network settings, focus and LED, language and user name
Sighting:	Integrated video with local display and remote image capture. Patented pulsed Green LED focus pattern confirmation
Focus Range:	300 mm / 11.8 in to infinity, locally or remotely adjusted
Repeatability:	± 3 °C < 200 °C, ± 2 °C or 0.25 % K at 300 °C and above
Measurement Accuracy:	± 5 °C < 200 °C, ± 2 °C or 0.25 % K at 300 °C and above
Resolution:	0.1 °C
Noise:	5 °C < 200 °C, 1.5 °C at 250 °C, <0.5 °C at 300 °C and above
Sealing:	IP65
Response Time:	Adjustable 15 ms to 10 s
Mounting:	Full range of mountings and accessories available
Interfaces:	0-20 mA DC or 4-20 mA DC, Digital or Analogue (0 or 4-20 mA) CMD In and CMD Out, Modbus TCP/IP, REST API, EtherNet/IP, web server
Processing Functions:	Peak/Valley Picking, Averager, Modemaster, CMD In sampling or LED control, CMD Out alarms, emissivity output or actuator control
Power Req.:	Power over Ethernet or 24 V DC
Software:	Live configuration and temperature display on any web browser. Optional SPOTPro software with datalogging, live and historical data trending plus remote image capture
Languages:	Integrated multiple language selections: English, German, French, Italian, Spanish, Portuguese (Brazilian), Japanese, Chinese (simplified Mandarin), Korean, Russian, Polish
Ambient Temp. Range:	5 - 60 °C / 41 - 140 °F specified, 0-70 °C / 32 - 158 °F operating before cooling required
Warranty:	See our website at www.ametek-land.com for warranty details

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CONTACT US

WEB: www.ametek-land.comEMAIL: land.enquiry@ametec.comWe are fully committed to Quality Assurance. See all our accreditations at AMETEK-LAND.COM/QUALITY