UNLOCKING THE BLACK BOX FROM THE MOLD EXIT

The wtl Series leverages advanced dual-sensor self-calibration technology, delivering micrometer-level precision and accuracy in continuous casting processes for width, thickness, and length measurements

DURABLE IN DEMANDING ENVINROMENTS

Specifically designed for the rigors of continuous casting, the wtl Series ensures reliable performance in extreme industrial settings, withstanding high heat and dust

SEAMLESS INTEGRATION

Comprehensive software capabilities allow for the seamless integration of the WTL Series into existing production systems, enhancing process control and data-driven decision-makings

ADAPTABLE SYSTEM DESIGN

The modular configuration of the WTL Series is ideal for continuous casting applications, offering the flexibility to adapt to different production requirements and system evolutions

REAL-TIME DATA AND SMART MONITORING

Equipped with advanced monitoring features, the wtl Series provides immediate feedback on process conditions, facilitating prompt adjustments and continuous improvement

MINIMAL MAINTENANCE NEEDS

The wtl Series is engineered for low maintenance, ensuring long-term reliability and consistent performance in continuous casting operations

Technical Data

Offering advanced solutions with two-sensor self-calibration, wtl Series achieves micrometer precision and accuracy in measurements of width, thickness and length.

Amount of Sensors to Operate	2 up to 16
Temperature Independent Measurement	Hot or Cold[1] dimension
Pyrometer Integration	Integration of standard wtl third party Pyrometer[1]
Trigger Modes for Measurement	non triggered
PLC Interface	Modbus TCP/IP
Alternative Communication Interface[2]	MQTT[3] with QoS 2, REST[4] or a raw TCP/IP[5]
Additional Communication Capabilities[2]	Receive information for a measurement e.g. reference values, trigger signals, material identification and more
Monitoring Interface[6]	WebSockets or MQTT[3] with QoS 2
Monitoring Capabilities[6]	Internal information of Sensors and Processing Unit, their Metadata and measurement related information
Interface Encryption	Transport Layer Security (TLS), additional RFC 7519 Industry Standard[7]
Web Configuration Dashboard	Embedded Web Application for observing and calibrating the Solution
Browser Compatibility	Chrome/Edge[8]
Sensor Housing Material Options	Aluminum alloy or Stainless Steel
Process Unit Delivery	Switch cabinet or protected housing[9]
Protection	IP20 (switch cabinet), IP68 (protected housing), IP68/IP69K (radar sensor unit)
Certification of radar sensors	CE, FCC
Power	230 VAC / 50 Hz or 110 VAC/ 60 Hz for U.S. Market available
Power Consumption	~500 Watt (with 16 Sensors)
Measurement Principle	FMCW-Radar

1 Pyrometer integration is needed
2 Alternative Communication interface (COM Module) is needed
3 MQTT Broker is not included
4 Customer side has to implement its own mechanisms to connect to the REST interface. Cannot be used for non triggered measurements
5 We propose the use of MQTT or REST over TCP/IP due to their authentication processes
6 Monitoring Interface (Watchdog Module) is needed
7 For REST/Websocket interfaces
8 Firefox is not supported; All Chrome based Browsers are supported
9 Stable up to 260°C