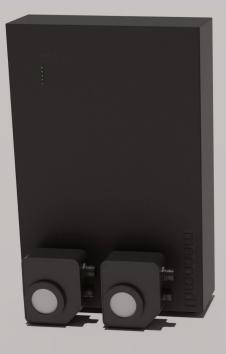




Technical File for wtl Series English language



ADVANCED TWO-SENSOR SELF-CALIBRATION

The wtl Series features state-of-the-art self-calibration technology, ensuring micrometer precision in measurements of width, thickness, and length

MINIMAL MAINTENANCE AND SCALABILITY

The series is designed for low upkeep requirements and is scalable to meet different technical and distance specifications, ensuring a long-term, adaptable solution for industrial measurement needs

COMPREHENSIVE SOFTWARE INTEGRATION

Facilitates the distribution of digital information across production levels, enabling in-line interventions for yield improvement and detailed production analysis

MODULAR AND DYNAMIC CONFIGURATION

The series boasts a modular design that can be easily integrated into various production lines and adapted to evolving information needs

SMART MONITORING CAPABILITIES

Equipped with the Watchdog Package for real-time status information transmission, and multiple communication interfaces including Modbus/TCP, TCP/IP, REST, and MQTT for versatile data delivery

EXTREME CONDITION COMPATIBILITY

Engineered to operate reliably in harsh conditions such as high heat, dust, smoke, fog, and spray environments, the wtl Series is designed for challenging industrial settings

Technical Data

thickness and length Amount of Sensors to Operate 2 up to 16 **Temperature Independent Measurement** Hot or Cold¹ dimension Pyrometer Integration Integration of standard wtl third party Pyrometer¹ Trigger Modes for Measurement non triggered, triggered by PLC, IT² or self-triggered **PLC** Interface Modbus TCP/IP MQTT³ with QoS 2, REST⁴ or a raw TCP/IP⁵ Alternative Communication Interface² Receive information for a measurement e.g. reference values, trigger signals, Additional Communication Capabilities² material identification and more Monitoring Interface⁶ WebSockets or MQTT³ with QoS 2 Internal information of Sensors and Processing Unit, their Monitoring Capabilities⁶ Metadata and measurement related information

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

Transport Layer Security (TLS), additional RFC 7519 Industry Standard⁷

Embedded Web Application for observing and calibrating the Solution

Chrome/Edge⁸

Aluminum alloy or Stainless Steel

Switch cabinet or protected housing⁹

IP20 (switch cabinet), IP68 (protected housing), IP68/IP69K (radar sensor unit)

CE, FCC

230 VAC / 50 Hz or 110 VAC/ 60 Hz for U.S. Market available ~500 Watt (with 16 Sensors)

FMCW-Radar

1 Pyrometer integration is needed

Power Consumption Measurement Principle

Interface Encryption

Browser Compatibility

Process Unit Delivery

Protection

Power

Web Configuration Dashboard

Sensor Housing Material Options

Certification of radar sensors

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