



OptiSense Company Presentation



Presentation – OptiSense

CONTENT

The OptiSense Story

The Photothermal Principle

OptiSense Solutions

At your service, wherever you are

References

Success takes Experience | The OptiSense Story



OptiSense. Company Presentation



OptiSense – Clear Benefits at a Glance

- More than 30 years experience of photothermal measuring
- a wide variety of substrates
 - Industrial test systems automated, contactless, fast and very precise
 - Mobile measuring devices contactless, lightweight, networkindependent and eye-safe
 - Professional 360°-Service throughout the entire life cycle flexible, cost-saving and resource-efficient
- Maximum miniaturisation in coating thickness measurement
- Sensors are developed and manufactured in-house for tailor-made solutions
- OptiSense is certified according to DIN EN ISO 9001:2015

OptiSense. Product Presentation



Industrial Measuring Devices – Clear Benefits

- Up to eight measurements simultaneously, even with different sensors
- High-power versions for thick coatings, large measuring distance and higher energy density
- Short measuring time for high-speed production lines
- Longest service life, energy efficiency and vibration resistance, thanks to the semiconductor light source
- Small measuring spot for corners and edges
- For use in confined spaces
- Compact design and minimal weight, optimal for robot mounting and use in confined spaces
- Eye-safe models with patented LARES® technology available

OptiSense. Product Presentation



Mobile Measuring Devices – Clear Benefits

- Small measuring spot accurately detects small parts, corners and edges
- With the sensor, which is separated from the handheld device, even hard-to-reach areas can be accessed
- Robust semiconductor technology for long battery life
- Intuitive operation and acoustic feedback
- Three-point illuminated visor ensures correct measuring distance for freehand measurements
- Measurement results and evaluation can be seen at a glance on the large, clear display
- USB interface for data storage and analysis with PC and Excel

OptiSense. Product Presentation



OptiSense Services – Clear Benefits

- Expansion of automated quality controls
- Cross-process analysis options
- Parameters are precisely recorded, aggregated and documented as real-time data in the production process
- Always the most modern equipment
- Optimized processes that run "smoothly"
- Targeted use of resources
- On-site service upon request
- Transparent costs for your budgeting

The photothermal principle

Measuring Method

Measuring Method

- A light beam heats the coating surface
- The heat travels downwards through the coating
- The coating cools down again at a rate depending on the coating thickness
- A detector measures the cooling time and uses it to calculate the coating thickness



The photothermal principle



The photothermal principle

Materials



Different light sources for optimal excitation of different materials

- LED infrared for rubber substrates
- LED ultraviolet for bright powder coatings
- Laser for small components and tight corners

OptiSense. At your service, wherever you are



Hauptsitz DeutschlandWeltweite Standorte

OptiSense has been a reliable partner for noncontacting coating thickness measurement in automatic processes since 15 years. Complicated tasks have been excellently handled with their own knowhow and stable measuring processes have been implemented in the coating systems.

> Bernd Biedermann, Industrielackierung BIEDERMANN GmbH

With OptiSense we feel in good hands at all times. Professional knowledge on a high level not only in measurement technology, but also in the related processes and materials characterize the cooperation. The service is excellent.

Dipl.-Ing. Ralph Jan Wörheide, ORONTEC







With the mobile PantChecker, our coating staff can very quickly determine the coating thickness of the workpiece. This often saves us sampling – we can start production immediately.

Horst Schuller GSO Oberflächentechnik GmbH

> From the inline coating thickness measurement, we can therefore not only check the quality of the coating, but also draw conclusions about the functional quality of the system technology.

> > Dr. Felix Zabka ConceptColor GmbH



For us, the early process control thanks to the non-contact layer thickness measurement is extremely valuable because the measurement results can be evaluated and assessed very early on.

> Oliver Weist WWO GmbH



"The PaintChecker Mobile makes work much easier – Our staff really loves it...

Benedikt Seidel Meister & Abteilungsleiter Lackiertechnik Brückner Textile Technologies



OptiSense | Kundenreferenzen

Der PaintChecker garantiert stabilere Prozesse, weniger Ausschuss und wir sparen damit eine Menge Ressourcen ein.

Martin Kolenda

Umwelttechniker Verfahrenstechnik, Ausbildungs- und Qualitätsleiter, Metob Unternehmensgruppe

Mit der neuen Messtechnologie können wir jetzt auch in Bereichen messen, bei denen es mit herkömmlicher Technik keine vernünftigen Ergebnisse gab. Sogar an Kanten und Falzungen

Marco Jobst

Geschäftsführender Gesellschafter, Metob Unternehmensgruppe





OptiSense | Kundenreferenzen

Die Schichtdickenmessung mit dem PaintChecker erspart Ausschusskosten von mehr als 1000 <u>Euro pro Bauteil.</u>

> Ingo Wildermann Geschäftsführer Giga-Coating





Mit der neuen Messtechnologie können wir jetzt auch in Bereichen messen, bei denen es mit herkömmlicher Technik keine vernünftigen Ergebnisse gab. Sogar an Kanten und Falzungen

> Thomas Maubach Leiter Pulveranlagen, Giga-Coating GmbH





Thank you.