

# SurfSens



## Detection of Film Depositions on Technical Surfaces

### Applications

- Detection of process-related contamination generated during production
- Detection of required depositions, e.g. corrosion prevention coating
- Inspection of the state of cleanliness of:
  - workpiece surfaces
  - production utilities
  - production environment
  - systems and equipment
- Inspection of cleaning procedures
- Replacement for time-consuming test procedures, e.g. microscopic measurements
- Inspection of workpieces after cleaning

### SurfSens Sensor Systems for the Simple Detection of Filmy Contamination on Technical Surfaces

The **SurfSens** is a compact system for use on almost all technical surfaces to detect the presence of filmy contamination, e.g. oils and grease, or to inspect the state of protective coatings, e.g. corrosion prevention. Fully single-hand control ensures maximum flexible utilization.

The cleanliness of parts is an essential prerequisite when manufacturing high-quality products. Contamination residues not only impair the functionality of technical systems but also increase production costs due to defective goods.

Their unique technology and portable design make acp sensor systems the perfect solution for companies requiring clean surfaces at product level and in the production environment.

# Inspection Technologies

# Data Box SurfSens



## Detection of Film Depositions

Surfaces are inspected by measuring the relative difference in luminance caused by the presence of a thin film. A reference value is first obtained from a defined surface. Comparative measurements are then performed to gain information about the state of the film deposited on a surface, e.g. oils, lubricants, cooling lubricants and corrosion-prevention agents.

<b>Measurement area:</b>	<b>Ø 7 mm</b>
<b>Footprint:</b>	<b>Ø 26 mm</b>
<b>Weight:</b>	<b>520 g</b>
<b>Dimensions (L x D):</b>	<b>150 mm x 60 mm</b>
<b>Measurable film thickness:</b>	<b>&gt; 500 nm specific to application</b>
<b>Alarm limits:</b>	<b>freely adjustable</b>
<b>Analysis functions:</b>	<b>relative luminance</b>

## Features

- Portable device with single-hand operation
- Suitable for factory use, compact and tough design
- Fast and reliable analysis
- For integration as sensor module into process equipment

## Detection of Film Deposition

- Inspection of film deposition
- Reproducible measurements
- Non-destructive measuring technique
- Fast analysis



## Optional accessoires for SurfSens measuring device: DataBox

- Documentation of measuring data
- Wireless online-data transfer of all measuring data in real time
- Start / stop function for series and batch measurements
- Integrated printer for printing measurement results
- Multi-sensor capable for simultaneous administration of several SurfSens devices
- PC-interface with software package for PC data transfer