# PREMOSYS®

Productrange



LED- AND LIGHTMEAUSREMENT

OPTIMIZED FOR PRODUCTION AND LABORATORY



INLINE COLORMEASURMENT SYSTEMS

ALL SURFACE STRUCTURES FROM INHOMOGENEOUS TO GLOSSY



**ELECTRONIC MODULES** 

CUSTOMIZED PCB AND MODULE DEVELOPMENT



MEDICAL TECHNOLOGY

OPTICAL MEASUREMENT TECHNOLOGY AND REGULATION ELECTRONICS



SPECTRAL MEASUREMENT SYSTEMS

**AUTOMATED LIQUID ANALYSIS** 



SENSOR TECHNOLOGY FOR CULTIVACTION DEVICES

SYSTEMS FOR PLANT DIFFERENTIATION AND WILDLIFE DETECTION



**AUTOMATION SOLUTIONS** 

FROM ENGINEERING TO MECHANICAL DESIGN
AND MANUFACTURING

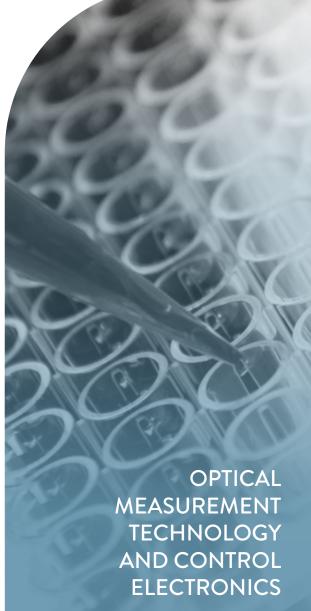




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PREMOSYS®

analytics

EDITION 05/2

The high-resolution color and spectral sensor systems by **PREMOSYS**° demonstrate performance capabilities that meet the highest demands of a wide range of industries worldwide. The sophisticated sensor technology is characterized by its process-safe and reliable long-term stability, even under constantly changing environmental conditions. Easy to integrate into any application and with their durable, maintenance-free properties, the compact systems fit ideally into existing and new processes.

# OPTOELECTRONICS IN BIOTECH AND MEDICAL TECHNOLOGY

In addition to the development and production of innovative systems for professional color recognition and color measurement, our own research in the field of new spectral sensor chips and technologies has been firmly anchored in our corporate philosophy for over 20 years.

The solutions range from individual components such as miniature spectrometers to complex complete systems for analyzing contents based on optical parameters. The engineered products are always developed as "living systems" in order to efficiently meet the constantly growing and changing requirements of markets and customers.

Our products, expertise and services will assist you in maintaining and collectively improving your quality and productivity at a consistently high level.

Connected. Wired. Linked.

### PREMOSYS" NANOS +

- Filtering of specific wavelengths using nanostructures located directly on the sensor chip
- Optical filter structures smaller than the wavelengths of light
- Cost-effective production of all CMOS technology

PREMOSYS

electronics

**NUCLEIC ACID EXTRACTION** 

and

developed software solutions from

PREMOSYS®, automated nucleic

acid extraction has become a

permanently stable and reliable

process in numerous laboratories.

powerful

specially

### PREMOSYS® REAL-TIME ANALYSIS

Optoelectronics and complex control systems by PREMOSYS® are used worldwide in real-time analysis processes such as bioreactors to determine fluorescence and cultivation important parameters.

### **TECHNICAL DATA**

- 1,600 spectral information on 16 mm<sup>2</sup> measuring surface with high precision
- VIS (400 850 nm)

# PREMOSYS OPLYTIX SPECTRA base

- biotech and high-performance
- Measurements from VIS to NIR
  - Inline monitoring of biotechnological processes and polymer melts

### **TECHNICAL DATA**

- **VIS** (360 830 nm) Resolution: 5,2 nm
- VIS NIR (500 1100 nm) Resolution: 6,7 nm

## PREMOSYS OPLYTIX SPECTRA clear

- High-precision spectrometer with large spectral measuring
- Measurements from UV to
- Inline monitoring of biotechnological processes and polymer melts

# **TECHNICAL DATA**

**UV - NIR** (190 - 1100 nm) resolution: 1,0 - 1,8 nm



### Thanks to the high-precision technology, sensor

• Miniature spectrometer for processes





# PREMOSYS eFLAT-S

The eFLAT-S is a unique, very compact double spectrometer. The system, based on the latest technology, guarantees very high process reliability in parallel operation of up to two spectrometers in parallel guarantees very high process reliability when analyzing ingredients by evaluating spectral measured values.

