MEMO SENS

Reliable and robust real-time color control in liquids
With the Memosens Wave CKI50 process spectrometer

Keep a close eye on product quality and purity

Compact design The Memosens Wave CKI50 process spectrometer determines the color across the entire color spectrum – just as precisely as a laboratory would but using a single device directly in the process.

Simple, fast commissioning and operation The Memosens technology and Liquiline transmitter mean that no calibration or extensive expert knowledge is required.

Robust in-line color control Highly repeatable and continually reliable color measurements. Even in demanding environments, thanks to a high resistance against water ingress and an insensitivity to vibrations and higher temperatures.

Reliable and efficient process control: The hygienic design ensures that food is produced safely. Determining the color directly in the process allows you to prevent product losses and to minimize possible health risks for consumers.

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Are you in need of a reliable color measurement for liquids in order to reliably and continually monitor your process? With the new Memosens Wave CKI50 process spectrometer you can now do so in real time using a single, compact measuring device for the full color spectrum – from 380 to 830 nm. The color is output as an L*a*b* value. The CIE-L*a*b* color space is a color scale for universal use with a wide range of applications and is defined by a DIN standard.

Incorrect color values and color imperfections can be immediately displayed in your control system, allowing you to directly intervene in the process if a defined limit value is reached.

The new process spectrometer is the perfect companion for the Food & Beverage industry, for Chemical and for Life Sciences industries. The innovative spectrometer design and the Memosens technology enable a simple, direct integration into your process.

In combination with a Liquiline CM44P transmitter, you can benefit from all common communication protocols and the advantages of the Liquiline platform. For example, you can quickly connect further Memosens sensors as required. Additional technical components or extensive knowledge of data modeling and process development are not necessary when working with the Memosens Wave CKI50. Simply connect it and start measuring.

Furthermore, ATEX and hygiene approvals as well as the highest protection class IP69 ensure safe operation even in potentially hazardous, rough and hygienic environments.

ⓘ Which applications are process spectrometers suitable for?

Quality checks: Color deviations in end products can be caused by color fluctuations in raw materials, especially when using natural products. As such, it is important to detect these quickly and make suitable adjustments.

Filling checks: The growing variety of products and the increasing production speed mean that there is a higher risk of incorrect filling. Reliable and fast color detection makes all the difference.

Phase checks: The color detection also makes it possible to quickly detect different phases in piping and minimize product losses, e.g. during product changes or while cleaning.

Video: Easy color measurements – Memosens Wave CKI50

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