Colour Spectrometer SAUTER JCS



NEW

PREMIUM
★★★

## Versatile colour spectrometer for professional use



Determine wavelengths and colour spectra precisely, qualify and compare colours using current standards



Characterise colours comprehensively – taking the gloss into account or not



Developed for quality control of colours in the textile, printing and plastics industry and many other sectors

## Colour Spectrometer SAUTER JCS





### Features

- Precise colour spectrometer for determining wavelengths and colour spectra
- Identifies a range of chroma parameters
- You can select the standard observation angle as 2 or 10 degrees, several light source modes, several colour spaces
- Geometric optical D/8 structure, i.e. the angle at which the light is reflected from the sample is recorded is 8 degrees. This structure is suitable for highly diverse materials and surfaces
- Measurement process: the dual optical trail system simultaneously records the SCI and the SCE spectrum of a sample. This combination enables precise, comprehensive characterisation of the colour, both taking the gloss into account and not taking the gloss into account
- With LED light source to support fluorescence measurements
- The integrated white panel for reference is protected against contamination and guarantees the measuring accuracy
- Portable design, robust construction
- Wobble-free, dustproof and shockproof
- Full spectrum with long service life and low power consumption

- ❶ Developed for quality control of colours, in the textile, printing, ceramic, food processing and cosmetics industries, for example
- Ideal for use in the laboratory and industry:
  - USB data interface, as standard
  - Rapid, accurate measurement of the SCI and SCE spectrum, simultaneously within a second
  - Colour display with simple touch operation
- Offers the most varied calibration algorithms
- Supports several national and international standards and parameters, including spectral reflectance, WI (ASTM E313, CIE/ISO, AATCC and Hunter), YI (ASTM 01925, ASTM 313), colour spectrum index of Mt, touch colour fastness, colour authenticity, thickness, coverage rate, 555 colour classification as well as Munsell (C2)

### Technical data

- Displayed accuracy: 0,01 of [Max]
- Standard deviation: 0,08
- Light source: LED, UV
- Overall dimensions W×D×H 188×94×68 mm
- Net weight approx. 0,30 kg

STANDARD

| USB | BT | ACCU | 230 V | 1 DAY |
|-----|-----|------|-------|-------|

| Model | Measuring aperture | Observation angle |
|-------|--------------------|--------------------|
| **SAUTER** | | |
| **JCS 100** NEW | MAV: Ø 8 mm / Ø 10 mm \| SAV: Ø 4 mm / Ø 5 mm\| LAV: 1×3 mm | 2° \| 10° |
| **JCS 200** NEW | MAV: Ø 8 mm / Ø 10 mm \| SAV: Ø 4 mm / Ø 5 mm | 2° \| 10° |
| NEW **New model** | | |

**Adjusting program (CAL)**
For quick setting of the instrument's accuracy. External adjusting weight required

**Calibration block**
Standard for adjusting or correcting the measuring device

**Peak hold function**
Capturing a peak value within a measuring process

**Scan mode**
Continuous capture and display of measurements

**Push and Pull**
The measuring device can capture tension and compression forces

**Length measurement**
Captures the geometric dimensions of a test object or the movement during a test process

**Focus function**
Increases the measuring accuracy of a device within a defined measuring range

**Internal memory**
To save measurements in the device memory

**Data interface RS-232**
Bidirectional, for connection of printer and PC

**Profibus**
For transmitting data, e.g. between scales, measuring cells, controllers and peripheral devices over long distances. Suitable for safe, fast, fault-tolerant data transmission. Less susceptible to magnetic interference

**Profinet**
Enables efficient data exchange between decentralised peripheral devices (balances, measuring cells, measuring instruments etc.) and a control unit (controller). Especially advantageous when exchanging complex measured values, device, diagnostic and process information. Savings potential through shorter commissioning times and device integration possible

**Data interface USB**
To connect the measuring instrument to a printer, PC or other peripheral devices

**Bluetooth\* data interface**
To transfer data from the balance/measuring instrument to a printer, PC or other peripherals

**WIFI data interface**
To transfer data from the balance/measuring instrument to a printer, PC or other peripherals

**Data interface infrared**
To transfer data from the measuring instrument to a printer, PC or other peripheral devices

**Control outputs (optocoupler, digital I/O)**
To connect relays, signal lamps, valves, etc.

**Analogue interface**
To connect a suitable peripheral device for analogue processing of the measurements

**Analogue output**
For output of an electrical signal depending on the load (e.g. voltage 0 V – 10 V or current 4 mA – 20 mA)

**Statistics**
Using the saved values, the device calculates statistical data, such as average value, standard deviation etc.

**PC Software**
To transfer the measurement data from the device to a PC

**Printer**
A printer can be connected to the device to print out the measurement data

**Network interface**
For connecting the scale/measuring instrument to an Ethernet network

**KERN Communication Protocol (KCP)**
It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems

**GLP/ISO record keeping**
of measurement data with date, time and serial number. Only with SAUTER printers

**Measuring units**
Weighing units can be switched to e.g. non-metric. Please refer to website for more details

**Measuring with tolerance range (limit-setting function)**
Upper and lower limiting can be programmed individually. The process is supported by an audible or visual signal, see the relevant model

**Protection against dust and water splashes IPxx**
The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989 +A1:1999+A2:2013

**ZERO**
Resets the display to "0"

**Battery operation**
Ready for battery operation. The battery type is specified for each device

**Rechargeable battery pack**
Rechargeable set

**Plug-in power supply**
230V/50Hz in standard version for EU. On request GB, AUS or US version available

**Integrated power supply unit**
Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or US on request

**Motorised drive**
The mechanical movement is carried out by a electric motor

**Motorised drive**
The mechanical movement is carried out by a synchronous motor (stepper)

**Fast-Move**
The total length of travel can be covered by a single lever movement

**Conformity assessment**
Models with type approval for construction of verifiable systems

**DAkkS calibration possible**
The time required for DAkkS calibration is shown in days in the pictogram

**Factory calibration (ISO)**
The time required for factory calibration is specified in the pictogram

**Package shipment**
The time required for internal shipping preparations is shown in days in the pictogram

**Pallet shipment**
The time required for internal shipping preparations is shown in days in the pictogram

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