

Neltec ColourQ 2200

New version of the colorimeter

TECHNICAL SHEET

SUGAR CRYSTAL COLOUR WITH solution colour accuracy in real-time

- › Same performance as earlier version.
- › Smaller footprint for easier installation.
- › Integrate real-time colour measurement in your process control system.
- › Reach the required sugar quality – at optimum time and cost.
- › Avoid product out of specifications.
- › Increase capacity by melting less from the crystals.



Measurement of crystal sugar with solution colour accuracy in real-time

The Neltec ColourQ 2200 is an on-line colorimeter (no camera) measuring the sugar colour in a conveyor after the centrifugals. The instrument automatically determines the colour in solution with lab accuracy. Every few seconds the instrument displays a new measurement.

Reliable measurement for automatic and reliable spray-water control

Many sugar factories use the measurements of the Neltec colorimeters for automatic control of the spray water. This reduces excessive water use and unnecessary dissolving of the sugar crystals, while ensuring a uniform quality.

Continue next page ›

The colorimeter for real-time crystal solution colour

The **ColourQ 2200** instrument has:

- › No need for frequent and costly recalibrations. The initial calibration is calculated by Neltec and is stable for many years.
- › No requirement for annual service. Service and maintenance (recommended every 3 years) can be done in the Neltec workshop, if the measuring unit itself is sent to Neltec; in this case travelling costs can be avoided.
- › Proven and robust technology. No change in measurement principle for more than 35 years.

Measure sugar crystal colour in solution just after the centrifugals

- › Identify centrifugal problems immediately.
- › Prevent out-of-specs sugar from reaching the silo.
- › Get quality information in real-time.
- › Install on scroll, belt, scraper, or hopper conveyors.

Optimize quality

- › Measure every kg of your sugar to ensure that its colour is within specifications.
- › Avoid shipping better quality sugar than ordered and maximize your profits..

Technical specifications of the ColourQ 2200

H x L x W (not including support)	570 x 440 x 500 mm
Free space required above the bottom of the conveyor	1 450 mm
Weight	61 kg (enclosed colorimeter without support) 4.4 kg (measuring unit alone) 28 kg (control unit with PC)
Enclosure for measuring unit	Stainless steel
Lenses	Borosilicate glass, continuous monitoring/alarm for breakage
Power supply	115/230 VAC, 60/50 Hz, max. 0.5 kW
Output, OPC or MODBUS TCP/IP	Analog outputs
Compressed air supply	5 bar, clean and dry air
Illuminator	20 Hz Xenon discharge lamp, white light, no significant ageing in service interval (3 years)
Detection range	3 channels, visible and near infrared range; the detection is completely independent of other light in the ambience
Max. distance between measuring unit and control box/PC	100 m cable
Calibration interval	> 5 years

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For more information and prices, please contact:



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