

ColourQ 1600 MD, the

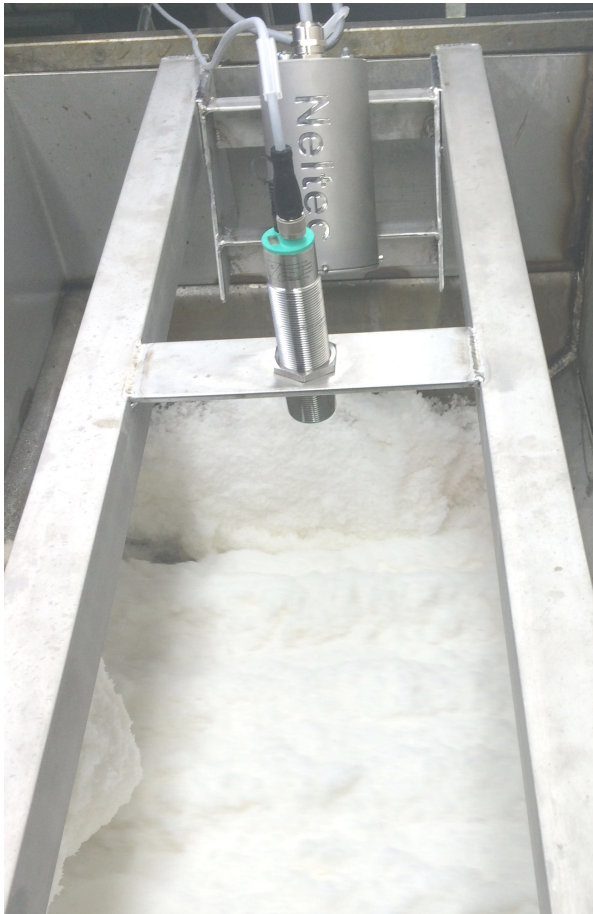
# “High Colour” indicator

for the conveyor after the centrifugals

The tool to:

- warn about undesired variations in quality
- stop high colour sugar from reaching drier/silo
- divert high colour sugar to remelt

The ColourQ 1600 MD is a colour indicator for installation on the conveyor after the centrifugals in order to detect high colour sugar with serious quality deviations. Its compact design and easy handling allows the customer to set up the instrument without any service and calibration from the manufacturer.



The instrument consists of a sensor mounted above the conveyor and a control cabinet.

The instrument has 5 digital outputs, indicating deviations from slight to serious. Initial adjustment is easy: Place sugar with slightly increased colour on the conveyor and do the same with sugar you definitely would not want into your drier or silo. Then the unit will automatically set 5 levels for alarm and set the corresponding digital outputs, when sugar with increased colour is conveyed.

The instrument has inherited the well-known characteristic from the ColourQ 2100 that enables it to pick up both surface colour from remaining mother liquor on the outside of the crystals and the colour included inside the crystals, even at the kernel.

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## Hints for the good function

Steam condensing to a fog between the sugar and the ColourQ MD 1600 will make the sugar look brighter and may reduce the sensitivity. If necessary, a fan may keep steam away from the light path.

By overlapping of charges on belt and grasshopper conveyors high colour sugar may be concealed by charges from other centrifugals. Careful sequencing of the discharges will reduce this risk.

Sugar with mother liquor on the crystal surface may stick to the conveyor and look like masecuite when the conveyor is empty. Even a

tiny amount of such crystals may cause an alarm. To prevent false alarms the conveyor should be kept clean or the alarms be blocked at an empty conveyor by an ultrasonic sensor switching off the alarm as seen in the photo overleaf.

The ColourQ MD 1600 must be kept clean. It must be washed and wiped dry at regular intervals, especially after cleaning the conveyor and environment.

## Technical Specifications

The ColourQ MD 1700 has two parts: A measuring unit and a control box.

### Measuring Unit

Dimensions (HWL):	84 mm x 84 mm x 150 mm (ex. vibration dampeners)
Weight:	3.9 kg
Light source:	LED
Body material:	Stainless steel (306)
Lenses material:	Borosilicate glass, 7.5 mm thickness
Protection Class:	IP 68
Ambient temperature:	Max. 60°C

### Control Cabinet

Dimensions (HWL):	84 mm x 84 mm x 150 mm
Weight:	3.9 kg
Body material:	Lacquered steel plate
Protection Class:	IP 66
Ambient temperature:	Max. 40°C
Power supply:	110/240 VAC, 50/60 HZ
Max. power:	110 W
Capacity:	1 Control Box may drive 4 Measuring units
Output signals:	4-20 mA Analogue output
Internet connection:	USB or Ethernet for remote assistance.

## For more information and prices, please contact:

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