



COLOUR ANALYSIS

On line analysis on belt conveyor **COLOBSERVER**

On line analysis in the product flow **SPECTROSERVER**



Colobserver CL 100 is used to carry out on line colour measurement

Colobserver CL 100 is a registered trade-mark of ITECA SOCADEI
Product info : colobserver@iteca.fr

1. DESCRIPTION

Colobserver CL 100 is used for on line colour measurement on every kind of stream of product in bulk or smoothed. On line colour analysis enables to control the product during the different steps of its manufacturing. Measurement can be carried out:

- At the supply of the plant to ensure a mastered quality
- During the manufacturing to adjust the parameters of the process
- At the factory outlet to guarantee quality

2. ADVANTAGES

Colobserver CL 100 is a fully automatic on line equipment which requires no human intervention. There are lots of advantages:

- Continuous control and monitoring of the supply of the manufacture
- Management of the stocking of the finished product according to its colour
- High reliability due to a permanent monitoring of the system
- Possibility of management of the breakdowns by TV intervention
- Possibility of connection with the factory in network
- On board touch screen colour monitor for ease of use and maintenance
- An integrated calibration system, fully retractable, which allows easy maintenance.

On-line colour measurement enables to optimize the production :

- Decreasing of the production costs
- Quality control
- Tracking of the production

Non stop on-line colour measurement is cost-saving

3. PRINCIPLES

The variations of the colorimetric values of the product (RX, RY, RZ, L*, a*, b*...) are controlled by using a light source and an industrial light detector.

A retractable calibration system is used to check the light source and integrate any deviation.

An onboard data processing unit with application specific software calculates the colour parameters and monitors the results.

A remote display unit is provided to follow the results directly from the control room.

4. PERFORMANCES

- Continuous analysis (up to 40 measurements per second)
- Storage of the results on data loggers (up to one year)
- Process alarm data loggers
- Self calibrating system
- Auto diagnostic software
- No product contamination (no contact analysis)
- Dust proof, sturdy construction enclosure

5. TECHNICAL SPECIFICATIONS

Size and weight (without frame): (H x L x W) 700 mm x 1480 mm x 880 mm

Weight: 400 Kgs

Power supply: 115 or 230 VAC
50 or 60 Hz 1.5 Kw

Compressed air: 6 bars

Material of the device: Steel (or inox option)



Spectroserver is used to carry out the on-line colour analysis

Spectroserver is a registered trade-mark of ITECA SOCADEI

Product info : spectroserver@iteca.fr

1. DESCRIPTION

On line colour analysis enables to control the product at the different steps of its manufacturing. With the Spectroserver we carry out a colour analysis on powder directly in the stream of the product. It is as well used during the manufacturing to adjust the parameters of the process. (control of grinding, mixture, sorting ...) and at the factory exit to guarantee the quality.

2. ADVANTAGES

- A fully automatic on line equipment requiring no human intervention
- Continuous control and monitoring of the supply of the plant
- Real time measurement of the colour characteristics resulting in the optimisation of the production
- Decreasing of the production costs
- Control of the quality
- Tracking of the production
- Management of the stocking according to the colour
- High reliability due to a permanent monitoring of the system
- Possibility of management of the breakdowns by remote control intervention
- Possible connection with the factory in network, field bus or via logical and analogical connections
- On board monitor for ease of use and maintenance
- Automatic calibration system

3. PRINCIPLES

- The variations of the colorimetric values of the product (RX, RY, RZ,, L* a* b* etc....) are controlled via a light source and a spectroserver
- Measurement is carried out in a cavity under pressure via a porthole to guarantee a perfect state of the surface.
- An auto-grading system enables to compensate the drifts of the lights and of the measure chain.
- An onboard data processing unit with application specific software calculates the colour parameters and monitors the results.

Spectroserver is a registered trade-mark of ITECA SOCADEI

4. PERFORMANCES

- Continuous analysis (1 measurement a minute)
- Storage of the results on data loggers (up to 5 years)
- Recording of the production events
- Auto-grading system with follow-up of the ageing of the light source
- Automatic cleaning of the porthole
- Long life expectancy of the light source (5 years)
- Auto diagnostic software
- Dust, temperature and water proof system.
- High precision of the measurement $<0,1$ on L^* , a^* , b^*

5. TECHNICAL SPECIFICATIONS

- Sizes and weight (without grading system):

H x L x P

1600 mm x 1500 mm x 1000 mm

Weight : 200 Kgs

Material of the device: Steel (inox option)

- Power supply

115 or 230 VAC

50 or 60 Hz 1.5 Kw

6 bars

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