

On-line Gloss-Measuring System

ZOL 1190 On-line gloss-measuring systems are based on the latest digital technology. Because of their modular structure they can be delivered as individual parts or as complete system specifically designed in accordance with the requirements of the customer.

During the production, coating or finishing process the gloss is measured without contact. Quality assurance (following ISO) during the manufacture is ensured at any time by continuous recording of the measured gloss values. When deviations from the specified quality occur, a warning signal will be given. By that, the rate of substandard products can be held at a low level. The system is further characterised by identical measuring values at the manufacturing plant and in the laboratory.

Features

- designed on the individual customer requirements
- measurements on the lower and/or the top side of the continuous material
- recording of the readings in order to control if the last meter produced is of the same quality in view of gloss as is the first meter
- cross section illustration
- multi-angle measuring-heads
- automatic calibration
- up to 1 '000 readings per second

Specification	
measuring accuracy:	0- 199.9 GU: approx. 0.5 GU 0- 1999 GU: approx. 5 GU dependent on the choosen specifications and under absolute perfect conditions in a clean environment
measuring sensor:	adapted to V (λ)
light source:	halogen lamp, standard illuminant A
power supply:	230 V 50 Hz or 115 V 60 Hz
calibration:	traceable to BAM (Federal Institute for Materials Research and Testing), DE
operating system:	Windows 2000, XP or Vista
dimensions (LxWxH) measuring-head:	20",45",45/0",60",85" and GlossHaze: 244 mm x 60 mm x 110 mm (9.61" x 2.36" x 4.33") 75": 264 mm x 53 mm x 110 mm (10.39" x 2.09" x 4.33") the bigger dimension applies at multiangle versions
standards:	according to brochure "introduction gloss"

Paint Test – Gloss

Display (Depending on the system configuration)

- 0- 199,9 or 0 - 1'999 gloss units (reflectometer value) registration of gloss as a function of time
- numerical and graphical indication of the measured values mathematical evaluation of entire measuring series in intervals of seconds
- minimum and maximum measuring value
- total mean value (average) of the measuring period
- optical warning system by colour change of the background from green (ok) to red (outside of the specified range)

Measuring cycle

- 1 '000 measurements/s effectively in the measuring-head
- mean value (average) with mathematical evaluation of the 1 '000 values measured, with indication on screen every second
- evaluation of all the 1 '000 values measured for minimum and maximum calculations

Calibration

- Standard:
manual positioning of the measuring-head respectively of the standard; automatic calibration with the standard value
- Professional:
automatic positioning of the measuring-heads; automatic calibration with the standard value

Options standard-system

- compressed air supply (free of oil and water)
- signal input for automatic reel change
- manual device with digimatic indicator for height adjustment of the measuring-head
- measuring-head-swing-out safety mechanism
- signal input for measuring-head-swing-out safety mechanism

Options professional-system

in addition to options Standard-System:

- optical warning system (rotary reflection lamp)
- analogue outputs
- special customer requirements

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