

Press Release Sensor Instruments

April 2019

Perfect Gloss Measurement!

29 April 2019. Sensor Instruments GmbH. Hand-held units for measuring the gloss level have been successfully used in the industry for years, and three viewing angles have been established as a standard: 20°, 60° and 85° measured from the vertical axis. The paper industry is an exception here and primarily uses viewing angles of 45° and 75°. The gloss level is determined by measuring the direct reflection at the object surface to be inspected.

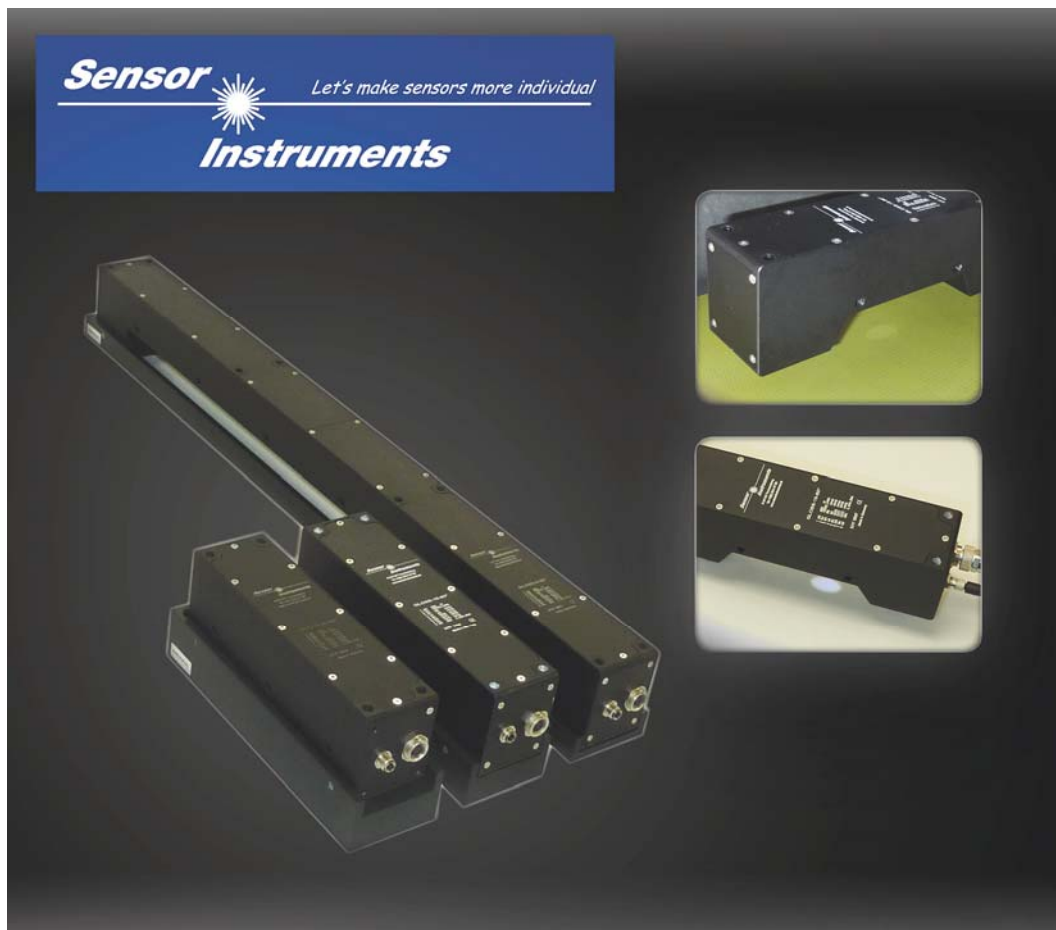
Transmitter and receiver are aligned at the same angle from the vertical. The transmitter is positioned at one side of the normal, and the receiver at the opposite side.

The 60° measuring method is used most commonly and allows a good measurement of matt through to glossy surfaces. The 85° method is preferred for extremely rough surfaces, e.g. for different grain sizes of sandpaper, whereas the 20° method is used for surfaces with particularly high reflection.

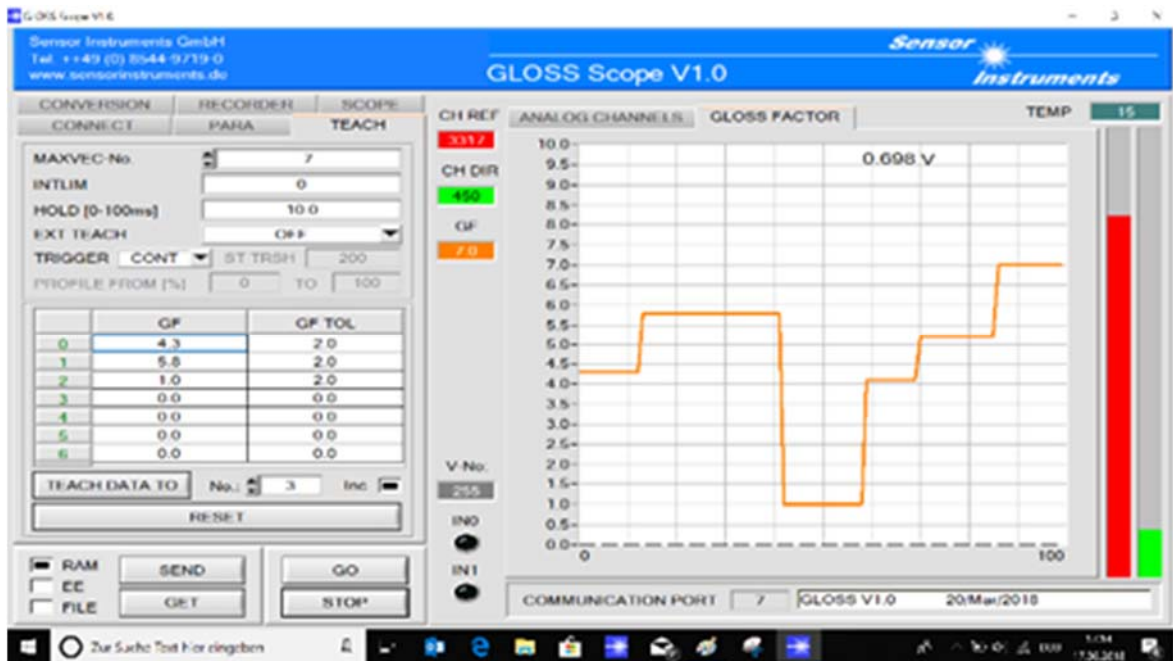
In the course of 100% quality inspection, however, inline gloss measurement has become more and more important, because some products (e.g. endless material that is wound up on a coil) simply cannot be properly checked afterwards and at different positions by means of hand-held units. Another advantage of the inline measurement method is the prompt feedback of the actual gloss level status, which in case of deviations from the setpoint value allows an immediate response.

With the inline gloss sensors of the **GLOSS series** there now are three sensors (**GLOSS-20-20°**, **GLOSS-15-60°** and **GLOSS-5-85°**) for the 20°, 60° and 85° measuring method that can be positioned at a distance of 20mm, 15mm and 5mm from the product surface to be measured (the 45° and 75° types also will be available soon).

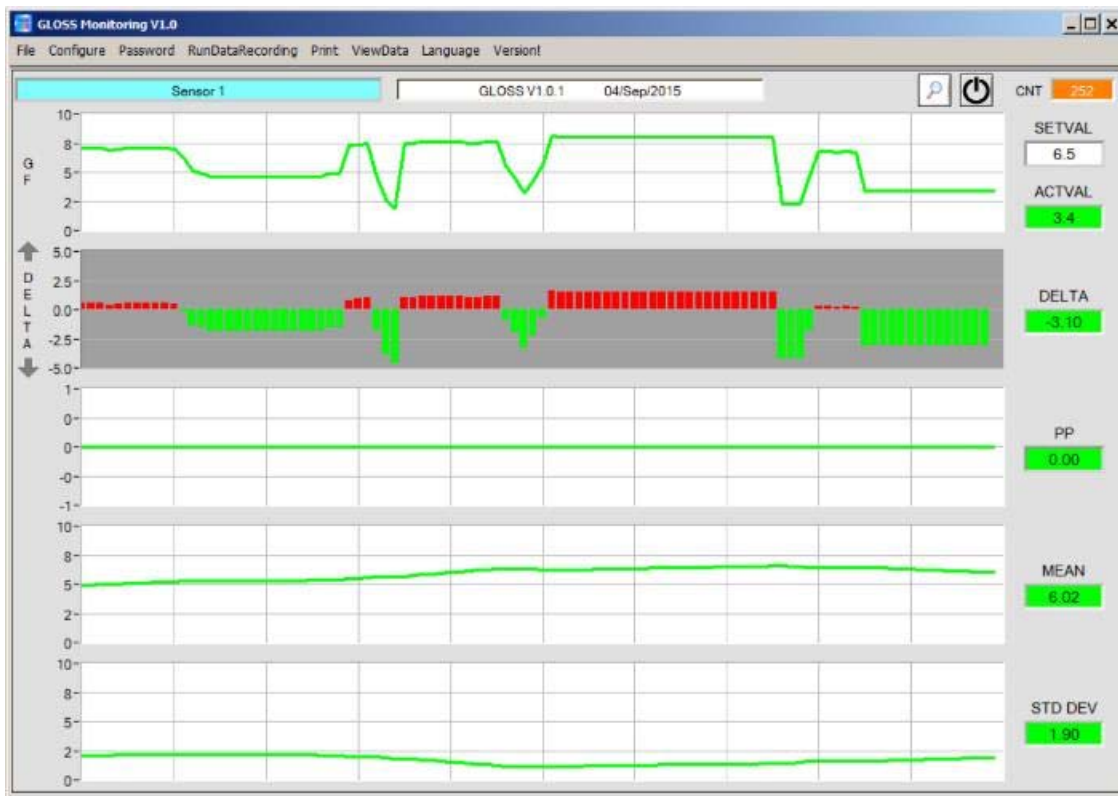
In addition to the Windows® software that is required for sensor parameterisation, the scope of delivery also includes a comprehensive monitoring software that allows the saving of gloss-specific data together with the job data while the current gloss level and its deviation from the setpoint value are displayed on the monitor.



The sensors of the GLOSS series for inline gloss measurement



GLOSS-Scope PC software



The monitoring software of the GLOSS series

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