

# Instrumentation for Beekeepers and the Honey Industry

Bellingham + Stanley Ltd. has been supplying instruments to the honey industry for a number of years and this trend continues with the introduction of a simple photometer to allow the measurement of color.

## Honey ColorPod

Traditionally Pfund color units have been derived using subjective visual assessment in a Pfund Honey Colorimeter or against glass standards. This can lead to differences in reported values between users. A more objective approach is to use an instrumental method based on a photometric measurement.

The Honey ColorPod combines simplicity with accuracy for the measurement of color in the honey industry. The instrument is compact and portable allowing for measurements to be made in-situ, rather than having to carry samples back to the laboratory.

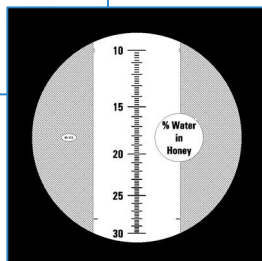
The measurement is performed using two single wavelength LED's at right angles to each other. Light at 430 nm and 530 nm is passed through the sample being analysed. The transmitted light is then related to the Pfund color scale or to the seven USDA Honey classifications. The LED will last the lifetime of the instrument. Samples are measured in 10 mm path length plastic cuvettes, with four clear sides, that are inserted into the spill proof sample chamber. The measurements take only three seconds to perform, with results output in mm Pfund honey.

To ensure the robustness of the instrument, casing is splash proof with a chemical resistant keypad fitted. To maintain battery life the instrument powers itself down if it has not been used for five minutes.

## Eclipse Hand-Held Refractometer

For many years, assessing the moisture content of honey has been made by way of an optical refractometer, as their operation is simple and they require little capital outlay.

The Eclipse refractometer is an extremely robust version manufactured using only the highest quality alloys and adhesives. The instrument is water-resistant and thus promises many years of good service. The Eclipse refractometer has an optical system that is both high resolution, whilst remaining clear to the eye.



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## Order Codes

Order Code	Description
44-830	Honey ColorPod
44-831	Plastic cuvette – 4-sided (pack of 100)
45-27	10-30 x 0.2 % Water in Honey Eclipse Refractometer

Special Versions of the Eclipse refractometer are also available allowing sample measurement of less than 1 micro-litre, typically used by zoologists and botanists for the assessment of nectars.