Small Universal Polarimeter

Visual circle polarimeter

- large measuring range
- can be equipped with various light sources
- possibility of variable wavelengths
- all-round use

Small Universal Polarimeter

The small Universal Polarimeter from Schmidt + Haensch has a circular scale of ±180°, divided into full degrees. With the Vernier scale, rotation can be measured to an accuracy of 0.1° and with a little practice, it can be estimated to an accuracy of 0.05°.

The analyzer is adjusted by rotating the Vernier scale, which, due to its large diameter, permits a most sensitive comparison of the half shadows. The scale, polarizer, analyzer and the channel for the samples are tilted 15° from horizontal, making operation more convenient and observation through the eye-piece more comfortable.

Polarizing filters are used for the polarizer and the analyzer. The polarizer is fitted with a twin two-piece quartz disc, which produces a divided field of view, whose half shadow angle dependents on the light used. With sodium light, λ = 589nm it is 8° and with mercury light light, λ = 546nm and it is 9.5°. There are two possible light units.

The lighting unit with LED is especially recommended for instructional purposes and for general measurements. Due to the low price of the unit and the life of the LED, the instrument is particularly economic. A further advantage is that the unit is ready for operation immediately after switched on. A transformer is necessary to connect the unit to the normal mains supply.

Technical Data

Measurement range	±180°
Resolution	0.1°
Precision	± 0.1°
Light source	LED
Wavelengths	546nm or 589nm
Measuring tubes	Glass tubes with bubble trap or filler
Mains adapter	110/220V 50/60Hz