

ColorPlus – Absorption meter for potable water

The two parameters UV-absorption and colour are important factors when monitoring the quality of potable water. The absorption at 254 nm wavelength reacts on humid substances and additionally shows the presence of other organic compounds such as oils, aromatics, solvents and other. By means like activated carbon filtration these substances need to be removed.

Studies have shown that for most applications a linear correlation exists between UV-absorption and DOC (dissolved organic carbon). Hence measurement of UV-absorption can be used for on-line indication in trend analysis of the DOC in raw water monitoring. Measuring the UV absorption also supports the monitoring of sufficient disinfection or removal of organic substances by ozone or active carbon filtration. Additionally colour can be measured.

It is therefore possible to achieve optimized control and constant quality of potable water by on-line monitoring of raw and pure water.

The absorption meter ColorPlus of SIGRIST-PHOTOMETER is specifically designed for these applications. Whether in-line or bypass, whether UV- or colour measurement or a combination of it, whether displayed units in E/m or Hazen, the ColorPlus is tailored to the application. The dual beam principle with integrated soil compensation achieves high stability and reliability of the measured values. Available options for turbidity compensation or the measuring with up to three different wave-lengths additionally enlarge the range of application.

The measuring cell can be opened easily and gives access for cleaning the cell windows. Stability check of the measurement is achieved with a linearity check. The checking unit that is supplied with the unit is inserted into the unit and the measured value allows checking for any occurred drift.

With these benefit rewarding features the high quality of the measurement is achieved and maintained quickly and independently by the operator.