



1. Colored liquid control

During a water cycle process the quality of the water must be controlled. It can happen that the water becomes slightly blue (pollution) or beige (oily) in color. Both case must be detected, the water must be clean. Different water samples were investigated with a color sensor type **SPECTRO-3-FIO-CL**, additionally to the sensor an optical fiber type **D-S-A2.0-(2.5)-1200-67°** (through beam model) in combination with two optical frontends type **KL-M18-A2.0** and optionally a **R-S-A2.0-(2.5)-1200-67°** (reflective beam version) were used. In the through beam application the optical fiber was not placed in the liquid, whereas the reflective optical fiber was arranged in the liquid without any additional reflector. Both test arrangements delivered proper results. The reflective arrangements demands a higher amplification compared to the through beam solution, but if there is no chance in practice to place a through beam solution a reflective type is available.



