



Mettler Toledo

Value Proposition 1176

Product Monitor

Industry: semiconductor

Value Proposition: Lowest cost per TOC
measurement

Lowest Cost Per TOC Measurement

- The semiconductor industry is advancing rapidly with an increased demand for more chips per wafer and narrower linewidths in the single digit nanometer range. In order to meet these challenges, ultrapure water (UPW) monitoring and control must be implemented to detect ionic impurities that could negatively impact wafer yield.
- Two critical parameters that must be monitored on-line and in real time to ensure water purity are [Total organic carbon \(TOC\)](#) and resistivity. The ability to accurately measure these parameters at sub ppb levels in UPW systems enables semiconductor manufacturers to improve product quality and maximize yield.
- The [6000TOCi](#) and [M800](#) provides the microelectronics industry the most advanced tool to meet the on-line continuous measurement and process control required for UPW systems. The METTLER TOLEDO TOC system provides the lowest cost per measurement point with the fastest response, advanced integrated diagnostics and sub-ppb detection.
- The [UniCond sensor](#), 6000TOCi and M800 transmitter are the best investments to reduce risk and improve yield for the microelectronics industry.