

Info Sheet

- To Low PPB Levels
- Compositional Fractionation
- Versatile and easy to install
- Low maintenance
- Portable if required
- Easily Multiplexed
- Instant Start-up
- Cost Effective



TOC Analysis

Low Level (ppb)

On R.O. Outlet

*Proven capability to provide
R.O. quality surety and
compositional information*

Low Level (ppb) TOC Analysis



What is it?

DCM Process Control has developed a package that allows an effective solution to gathering and analysing TOC data. TOC is a parameter used to measure water quality during the drinking water purification process and is used particularly to verify R.O. membrane performance.

DCM has proven the ability of the scan spectrometer to provide reliable TOC data downstream of R.O. membranes and at the same time provide fractionation data. This allows a better understanding of both contamination sources and membrane performance. This makes it ideal for both management of filtration packages and decisions around membrane type and maintenance.

The scan spectrometer uses intense UV light to detect the presence of minute amounts of organic contamination in R.O. discharge streams. Mathematical algorithms are used to compute the TOC and separate the absorptions into different contaminants. By measuring at other points in the process the contaminant components can be followed down through the treatment process or via multiplexing, any poorly performing membranes or other processes are quickly identified and rectified.

How it works

The DCM scan TOC package is built around an in process or bypass configuration. The RO outlet or other source water is passed through the measuring area of the scan 100mm spectrophotometer. The detailed spectral data is then mathematically processed to provide the TOC and a comprehensive breakdown of the organic composition present in addition to the nitrate levels in the discharged water. The compositional breakdown allows detection of even small shifts in the RO water. This can be done at ppb concentrations where a TOC analyser would not be able to distinguish the shift from background noise. Scan's advanced US EPA tested and approved validation and alarm software provides surety of your RO water quality. The scan computer allows direct control of alarming and divert systems in addition to operating grab samplers and sending text and other messages as appropriate.

For rapid detection of the source of non conformities, the system can be multiplexed or operated as a portable unit allowing rapid checks to be made in many areas of the processing plant.

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