

# Sievers\* Industrial & Environmental Organics Monitoring TOC Solutions



TOTAL ORGANIC CARBON (TOC) PRODUCT LINE	M500e	M-Series: M9e & M5310 C	TOC-R3	InnovOx	
ORGANIC CONTENT	Pure			Complex	
TECHNOLOGY TOC RANGE	UV oxidation MC <sup>†</sup> detection <b>0.03 ppb – 2.5 ppm</b>	UV persulfate oxidation MC <sup>†</sup> detection <b>0.03 ppb – 50 ppm</b>	UV persulfate oxidation MC <sup>†</sup> detection <b>4 ppb – 50 ppm</b>	High temperature non-catalytic combustion oxidation NDIR <sup>†</sup> detection for TOC/N POC <sup>†</sup> ECD <sup>†</sup> detection for TNb <sup>†</sup> PID <sup>†</sup> detection for VOC/POC <sup>†</sup> <b>&lt;1 ppm – 50,000 ppm</b>	Supercritical water oxidation NDIR <sup>†</sup> detection <b>0.05 ppm – 50,000 ppm</b>
APPLICATION	Ultrapure point of use and system monitoring	Primary feedwater treatment, reverse osmosis, mixed bed Reclaim monitoring Drinking water, reuse Clean utility water – boiler feedwater and condensate return	Utility water – polluted condensate and cooling water Wastewater – industrial and municipal influent, runoff and discharge Process water	Brine and salty samples Desalination Specialty chemicals Complex wastewater	
INDUSTRY	Microelectronics, Electronics, Semiconductor Power	Chemical Municipal Hydrocarbon/Petrochemical Power	Chemical Food & Beverage Hydrocarbon/Petrochemical Power	Chemical Hydrocarbon/Petrochemical	
SALT CONTENT					

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<sup>†</sup>MC = Membrane Conductometric; NDIR = Non-dispersive Infrared; NPOC = Non-purgeable Organic Carbon; ECD = Electrochemical Detector; TNb = Total Nitrogen Bound; VOC/POC = Volatile Organic Carbon/ Purgeable Organic Carbon; PID = Photoionization Detector