

Control and Management of Trihalomethanes (THMs) in Drinking Water



Trihalomethane (THM) levels in a water treatment system can change rapidly and are highly influenced by changes in raw quality and water age. Without real-time and high-density actual and predictive data on THMs across their networks, water treatment systems face the risks of under-treating their water or incurring substantial costs as a result of over-treatment.

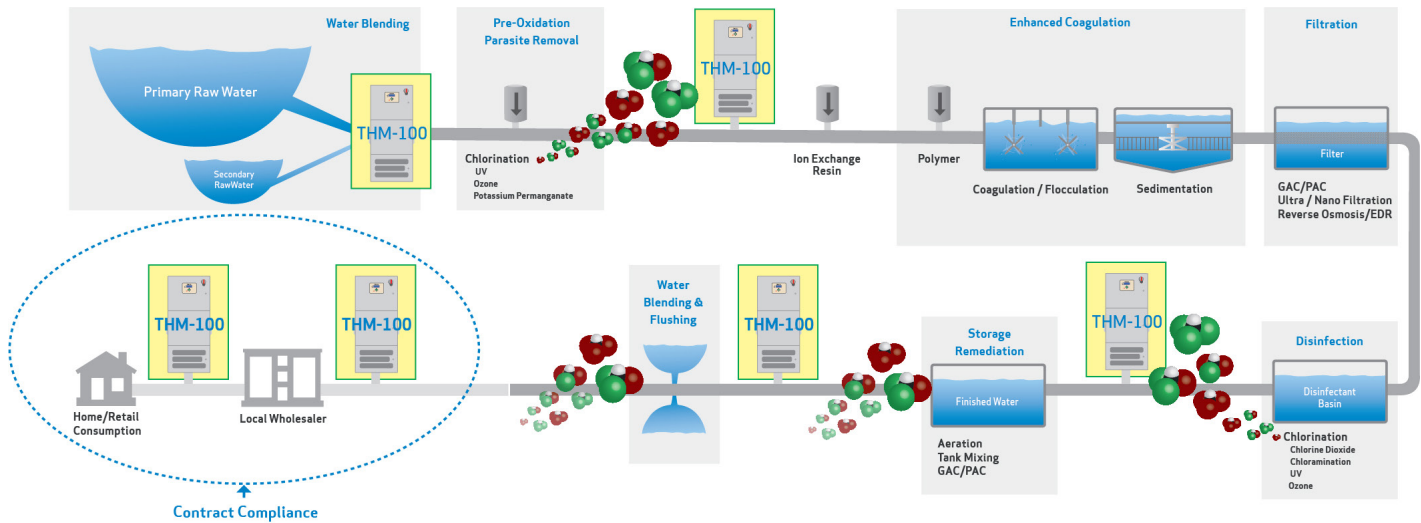
When integrated into a disinfection byproduct (DPB) control strategy, the AMS online THM analyzers (THM-100™, THM-100™ FP, THM-RR™) serve as an essential solution to facilitate regulatory compliance with THM standards. The real-time data provided by AMS' fully automated online THM analyzers ensure performance is optimized to avoid under- or over-treatment and that any deterioration in system performance is signaled to permit timely remedial intervention.

AMS' online THM analyzers provide clients with uptimes of > 98.5%, continuously delivering accurate and reliable THM data to manage DBPs. The operation of every AMS online THM water quality monitoring system is supported with remote, 24/7/365 factory monitoring to ensure the quick identification and remediation of operational issues. This unique approach minimizes downtime and optimizes performance.

The Role of Online THM Analyzers

- Raw water source optimization
- After pre-oxidation and parasite removal with chlorine
- After final disinfection with chlorine at exit of water treatment plant
- At locations of blending water in the distribution network
- At contract-compliance in transfer between water utilities
- At network tanks (with or without aeration)

Table 1. THM-100™ Installation Locations Diagram in Drinking Water Applications



THM-RR™

The rapid response benchtop THM-RR™ analyzer provides fast, reliable and accurate analysis of THM concentrations for water treatment operators, consulting engineers and THM treatment system vendors. The THM-RR delivers valuable THM performance data far faster than external laboratories.

THM-100™

THM-100™ is an online THM analyzer that provides automated, unattended measurement of THMs levels in raw and finished drinking water or wastewater; measuring chloroform or bromoform species as well as Total THM and THM Formation Potential. It enables users to control operational and treatment costs through reliable and accurate data on real-time and predicted THM levels at the treatment plant and in the distribution network.



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