

# THM-RR™

## Rapid Response Benchtop THM Analyzer

**The rapid response benchtop THM-RR™ analyzer provides fast, reliable and accurate analysis of individual and total 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-RR™ Features

#### Automated Operation

- Easy to use
- Results in 25 minutes
- Auto sampler provides rapid unattended analysis for up to 12 samples
- Operate in on-line or grab sample analysis modes

#### Comprehensive data

- Accuracy to 0.3 ppb or  $\pm 5\%$
- Sampling frequency 1 per hour
- THM speciation data provided
- Integrates with SCADA

#### Operational Optimization

- Replaces reliance on external laboratories for performance control
- Gives operators confidence in real-time THM levels to ensure regulatory compliance

### THM-RR™ Applications

- Water system operators seeking to ensure cost-effective compliance with DBP regulations
- Consulting engineers working to characterize THM problems in a timely, comprehensive and accurate manner
- Utilities and engineers looking to undertake rapid evaluation of THM treatment pilot systems, minimizing cost and time
- Utilities looking to undertake accurate, cost effective and timely acceptance testing of a newly installed THM treatment system

### Proven with Leading Engineers & Water Utilities

**“The data the THM-RR generates shows changes within our treatment plant that previously we could not effectively quantify”**

Dr. Manny Ojo  
Environmental Lab  
Manager Metro Nashville  
Water Services

**“We have used the THM-RR with clients to help identify opportunities to minimize THM formation while optimizing plant operations and treatment”**

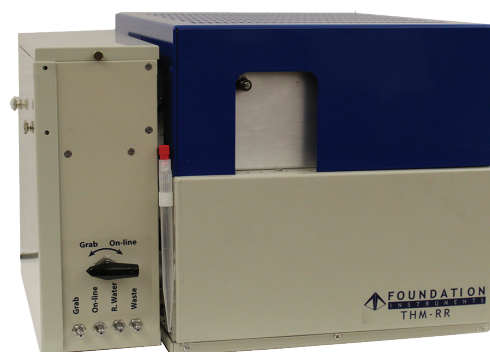
Ryan Priest  
Hazen and Sawyer

**“Outstanding installation, service and support”**

R. Easley  
Director of Water Quality  
and Operations  
Central Arkansas Water

**“In 1 year, we recouped the THM-RR cost from reduced chemical usage”**

J.C. York  
Plant Superintendent



The THM-RR™ matches labs for accuracy and reliability

# THM-RR™ Specifications

Performance			
Quantification Range			
	Total THM (TTHM):	0.12 - 240 ppb	
	Chloroform (CHL <sub>3</sub> ):	0.06 - 60 ppb	
	Bromodichloromethane (CHBrCl <sub>2</sub> ):	0.03 - 60 ppb	
	Dibromochloromethane (CHBr <sub>2</sub> Cl):	0.03 - 60 ppb	
	Bromoform (CHBr <sub>3</sub> ):	0.1 - 60 ppb	
Accuracy and Repeatability @ 20 ppb		Mean % Recovery	%RSD
	Total THM (TTHM):	99%	1%
	Chloroform (CHL <sub>3</sub> ):	97%	2%
	Bromodichloromethane (CHBrCl <sub>2</sub> ):	101%	2%
	Dibromochloromethane (CHBr <sub>2</sub> Cl):	97%	1%
	Bromoform (CHBr <sub>3</sub> ):	103%	2%
Accuracy and Repeatability @ 0.3 ppb		Mean % Recovery	%RSD
	Total THM (TTHM):	83%	2%
	Chloroform (CHL <sub>3</sub> ):	85%	2%
	Bromodichloromethane (CHBrCl <sub>2</sub> ):	81%	2%
	Dibromochloromethane (CHBr <sub>2</sub> Cl):	77%	1%
	Bromoform (CHBr <sub>3</sub> ):	87%	5%
Sample Size		20 mL	
Average Sample Time		25 minutes	
Sample Analysis Rate		1 sample per hour	

Operating Environment	
Instrument	5 - 35 °C (41 - 95 °F)

Facility Requirements	
Compressed Nitrogen Gas	Purity grade of "5.0" or 99.999% (Ultra High Purity)
Water	"THM free" water, reagent water or distilled water
Electrical	120 Vac, 10 A, -50/60Hz

Hardware	
Physical Size (With laptop on side)	18" W x 16" D x 13.5" H (36" W x 16" D x 13.5" H)
Weight	55 lbs (25 kg)

Warranty	
Service	Annual Service Contract 1 year Warranty
* Note- specifications are subject to change without notification.	