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 ± 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

The THM-RR™ matches labs for accuracy and reliability

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

Foundation Instruments, Inc.
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FOUNDATION INSTRUMENTS

THM-RR™ Specifications

Performance		
Quantification Range		
Total THM (TTHM):	0.12 – 240 ppb	
Chloroform (CHI_3):	0.06 – 60 ppb	
Bromodichloromethane ($CHBrCl_2$):	0.03 – 60 ppb	
Dibromochloromethane ($CHBr_2Cl$):	0.03 – 60 ppb	
Bromoform ($CHBr_3$):	0.1 – 60 ppb	
Accuracy and Repeatability @ 20 ppb	Mean % Recovery	%RSD
Total THM (TTHM):	99%	1%
Chloroform (CHI_3):	97%	2%
Bromodichloromethane ($CHBrCl_2$):	101%	2%
Dibromochloromethane ($CHBr_2Cl$):	97%	1%
Bromoform ($CHBr_3$):	103%	2%
Accuracy and Repeatability @ 0.3 ppb	Mean % Recovery	%RSD
Total THM (TTHM):	83%	2%
Chloroform (CHI_3):	85%	2%
Bromodichloromethane ($CHBrCl_2$):	81%	2%
Dibromochloromethane ($CHBr_2Cl$):	77%	1%
Bromoform ($CHBr_3$):	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.	

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