

Engineering Specification

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

Contractor _____
 Approval _____
 Contractor's P.O. No. _____
 Representative _____

MCX - Model No 28056

Monochloramine Analyzer

The HF scientific MCX (Monochloramine Analyzer) has been designed to measure and report the concentration of Monochloramine and Ammonia dosing in water samples over specified ranges. The instrument uses the modified phenate method to test for Monochloramine and Ammonia.

When a continuous process stream of water is flowing through the MCX, the instrument will take samples at preset intervals and display the readings. Reporting is made easy with a built-in display/control screen, along with standard 4-20mA outputs or Modbus communication outputs for instant data transfers.

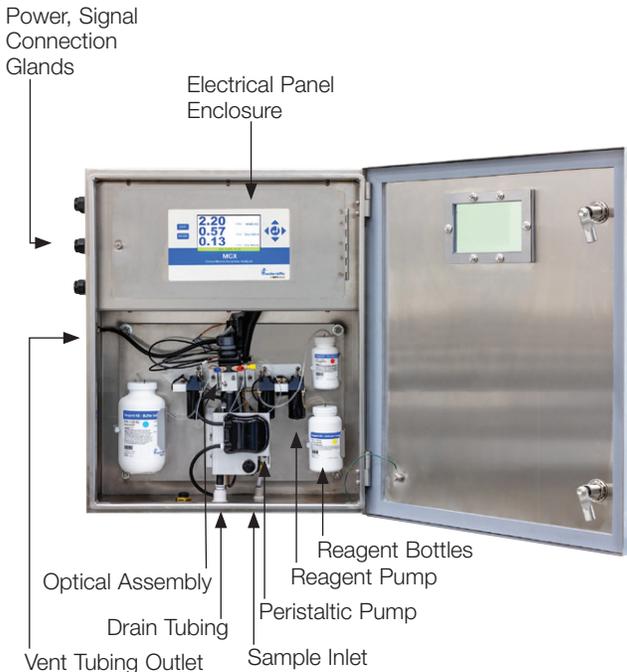
Features

- Accurately measures monochloramine (NH₂CL-CL₂) up to 10ppm and total ammonia (NH₃-N) up to 2ppm
- Calculates Free Ammonia (NH₃-N) up to 2ppm
- Customizable units - Report monochloramine and ammonia values in ppm or mg/L
- Manual and auto measurement modes with adjustable time between analyses
- Standard 4-20mA output communication
- Compatible with a sequencer for a multi-stream analyzer
- Modbus RS485
- Replace reagents every 30 days for continuous operation
- Downloadable readings, error logs and calibration data can be transferred to an external micro USB
- Simple Fluidics
- CAN/CSA and UL certified



MCX - Monochloramine Analyzer

Internal View of MCX



NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

HF scientific product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact HF scientific Technical Service. HF scientific reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on HF scientific products previously or subsequently sold.

Specifications

NOTICE

Specifications listed are based on installation/operation at sea level.

Measurement Range	0.02 to 2.0 mg/L as N
Accuracy	±5% or 0.01 ppm (as N) for 16°C to 40°C (61°F to 104°F); ±10% or 0.02 ppm for 40°C to 50°C (104°F to 122°F), whichever is greater
Repeatability	±3% RSD
Time Between Measurements	20 minutes to 24 hours
Display	5" color graphic
Alarms	Two, not powered relays
Communication	Modbus RS485, 4-20mA Output
Operating Humidity	5 to 95%, non-condensing
Operating Temperature Range	16°C to 50°C (41°F to 122°F)
Output	Three 4-20mA Outputs, 1000 Ω drive, isolated
Power Requirements (Hz)	47/63 Hz
Power Requirements (Voltage)	100 - 240 VAC
Sample Flow Rate	185 ml/min. to 225 ml/min. (.044 to .059 Gal/min)
Sample Pressure	124 kPa (18 psi) MAX (see Plumbing Connections section)
Sample Temperature	5°C - 50°C (41°F - 122°F)
Storage Condition	-20 to 60°C (-4 to 140°F), Drained
Wetted Materials	BPT, Polypropylene, 316 Stainless Steel, Viton, Noryl®, Resyln, Borosilicate Glass, PPS, PVDF (Kynar), Fluoroelastomer, Acetal, Nitrile. Additional materials when using the external brass regulator: Bronze, Polyethylene, 304 Stainless Steel, Brass, EPDM, PTFE, Rubber.
Insulation Rating	Double Insulated, Pollution Degree 2, Overvoltage Category II
Regulatory Compliance And Certifications	UL, cULus, Lead Free, tested to UL 61010-1 and CSA C22.2
Shipping Weight	88.6 pounds (packaged instrument)

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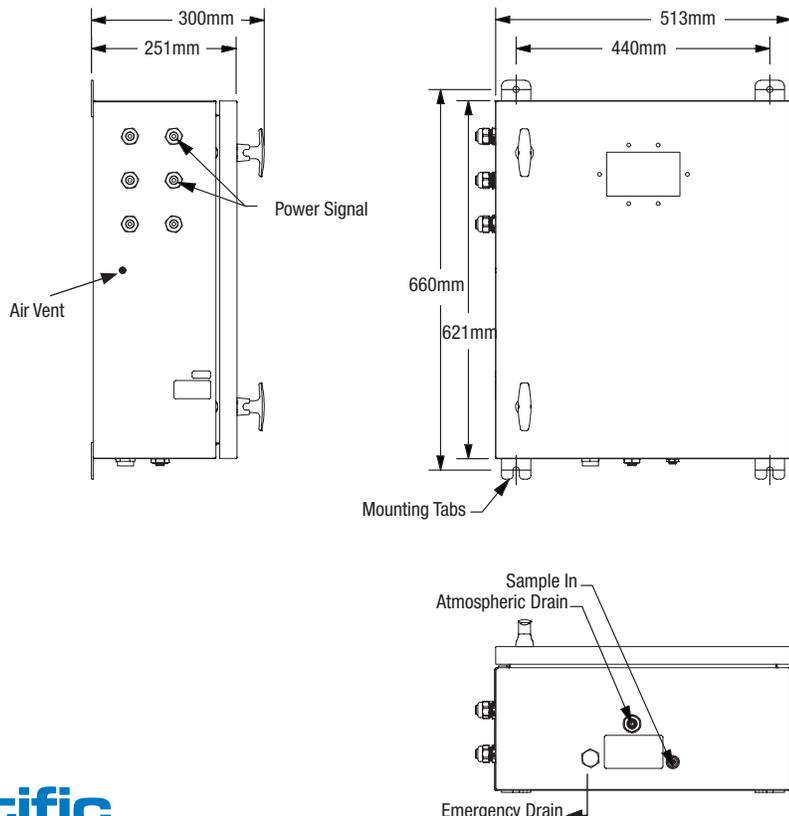
Ordering Information

Catalog Number	Accessory Description
25018S	Replacement Cuvette
28056	MCX Instrument
28141S	Pump Head Replacement Kit
28158S	Pressure Regulator Assembly
28182S	Complete Tubing Replacement Kit
28178S	Reagent Kit
28164S	Air Pump Kit
28181S	Reagent Pump Kit
100240	Operation Manual, MCX
28172S	Heater Replacement Kit
28176S	Grab Sample Kit, External
28179S	Cap and Inlet Tubing Kit
28180S	Replacement Thermocouple
100239S	Replacement USB
110154S	Light Shield Tether
28188S	MCX Flush Kit

To order any accessories or replacement parts, please contact HF scientific's Customer Service Department.

HF scientific
16260 Airport Park Drive, Suite 140
Fort Myers, FL 33913
Phone: 239-337-2116
Toll Free: 888-203-7248
Fax: 239-454-0694
Email: hf.info@wattswater.com
Website: www.hfscientific.com

Dimensions



A WATTS Brand

USA: T: (239) 337-2116 • Toll-Free (888) 203-7248 • F: (239) 454-0694 • HFscientific.com
Latin America: T: (52) 55-4122-0138 • HFscientific.com