

56 ADVANCED DUAL-INPUT ANALYZER

ROSEMOUNT ANALYTICAL MULTI-PARAMETER UNIT

Complete Analytical Solutions for Chlorine and Turbidity

The 56 analyzer is the key component of four complete system solutions:

- FCL: Free Chlorine Measuring System
- MCL: Monochloramine Measuring System
- TCL: Total Chlorine Analyzer System
- T56: Clarity II Turbidity System

Each system includes the 56 advanced analyzer (AC or DC power), sensor(s), connecting cable(s), and flow cell. These systems are designed for accuracy, reliability and ease of installation. The FCL, MCL and TCL systems includes Variopool quick-disconnect connections, making sensor replacement and replenishment with electrolyte solution quick and easy.

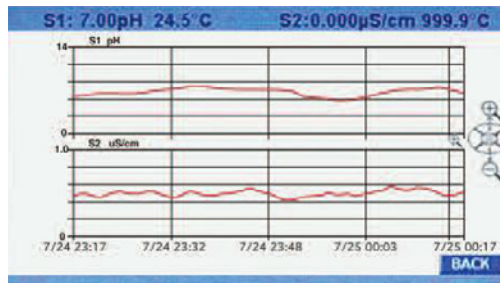


The 56 offers ease-of-use and key feature differentiators that solve analytical problems.

FEATURE	BENEFIT
Multi-Parameter Instrument	Any 2 inputs: pH, conductivity, chlorine, oxygen, ozone, turbidity and more
Quick Start Screens	Fast commissioning & reconfiguration in seconds
Detailed User Help Screens	Fix-it text for faults, warning with diagnostic errors
Data Logger	30-day data capture with time/date stamps for trend analysis
Event Logger	Visibility to alarms and Cal events with time/date stamps
SMART-Enabled pH	Eliminate field calibration, easy replacement
THUM Adaptor Compatible	Supports Wireless communication on Emerson wireless HART® networks

Data and Event Loggers

All recorded process data can be viewed on trend screens to aid on the spot troubleshooting. Or data can be uploaded to a USB 2.0 memory device for preformatted viewing on a PC. The event logger records 300 analyzer events including calibrations, faults and alarms, power interruptions and more. All process data and events are time/date stamped.



S1: 7.00pH 47.7 °C S2: 0.036µS/cm 24.0

MM/DD/YY	Time	Event
7/14/10	09:16:18	S1 pH Offset: 0mV
7/14/10	09:16:18	Passed
7/14/10	09:16:18	S1 pH standardization
7/14/10	09:11:04	Quick start finish
7/14/10	09:14:02	S2 Contacting cond board
7/14/10	09:13:53	S2 Measurement: Conductivity
7/14/10	09:13:53	HART and 4-20mA Option
7/14/10	09:13:53	AC Power+Relays Option
7/14/10	09:13:53	Model 56

Leverage the ease of use and performance of the 56 Advanced Analyzer for a wide range of applications

A few of the many suitable applications utilizing Rosemount Analytical's 56 Advanced Analyzer include:

- Chlorine dosing for drinking water disinfection
- Water filtration to eliminate disease-bearing bacteria Giardia and Cryptosporidium
- Primary disinfection with chlorine to kill bacteria, protozoa, and viruses
- pH adjustments for neutralization before plant outfalls
- Endpoint control for oxidation-reduction reactions at de-chlorination sites
- DO sensor cleaning in aeration basins/secondary treatment (using interval timers)

The 56 analyzer is the heart of these complete chlorine and turbidity solutions. The measurement capabilities and user-interface of the 56 analyzer are specifically

designed for ease of use and fast system installation. The 56 includes a large full-color display, a simple menu structure, and easy wiring for sensors, 4-20mA outputs and relays. Each unit includes an event logger and high-capacity data logger displaying live process values as well as all diagnostics. Every unit is also HART® communications ready, allowing seamless integration to asset monitoring systems such as AMS Intelligent Device Manager. Because the 56 includes HART communications, all 56 analyzer can be "Wireless-enabled" by adding a SMART Wireless THUM Adaptor. The 56 with a THUM Adaptor allows wireless reporting of process variables and diagnostics to a wireless-ready field network and AMS.



FCL – Free Chlorine Measuring System Key features:

- Continuous pH correction eliminates need for reagents
- No sample conditioning systems needed
- Measures free chlorine in samples having pH as high as 9.5 pH
- Constant head flow controller
- No valves, flowmeter or pressure regulator needed



T56 – Clarity II Turbidity System Key features:


- Complete system includes single or dual input analyzer, sensor(s), and debubbler assembly
- Choose U.S. EPA 180.1 or ISO 7027 sensors
- Resolution 0.001 NTU
- Easy sensor replacement and cleaning
- Three calibration methods for ease of maintenance and compliance
- Non-incendive field wiring approved by FM and CSA
- Quick-disconnect sensor cable fittings



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LIQ_PDS_ABR_56_Chlorine&Turbidity Rev. A

More information for Rosemount Analytical solutions can be found at:

56 product page: 56.railiquid.com

T56 Clarity II™ Turbidimeter: www2.emersonprocess.com/en-US/brands/rosemountanalytical/Liquid/Systems/T56/Pages/index.aspx

FCL, MCL, and TCL Chlorine Measuring Systems: www2.emersonprocess.com/en-US/brands/rosemountanalytical/Liquid/Sensors/Chlorine/Pages/index.aspx

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