Data Information
71A-56/rev A
September 2011

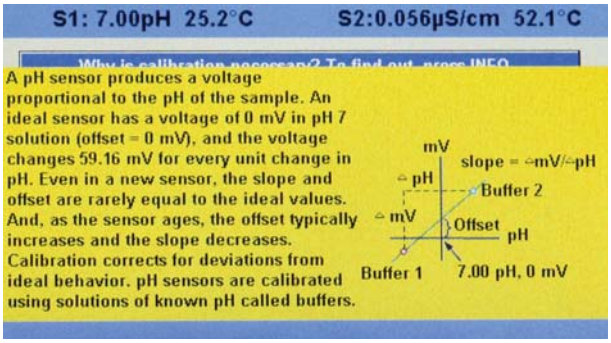
Model 56 Advanced Dual-Input Analyzer

- **High resolution full-color screen** – easily viewed process measurements and on-screen data trend graphs
- **Data Logger and Event Logger** – Download process data and alarm conditions with time and date stamps via USB
- **Control** – PID outputs and time proportional relays. Synchronized internal timers and other advanced relay logic for your application needs
- **Digital Communications** – HART® and Profibus® DP communications with full features and functionality
- **Inputs and Measurements** – pH, ORP, ISE, Resistivity/ Conductivity, % Concentration, Total Dissolved Solids, Total Chlorine, Free Chlorine, Monochloramine, Oxygen, Ozone, Turbidity, Pulse Flow, and 4-20mA input

MODEL 56
in process trending mode

A complete user guide and trouble-shooting manual is embedded in the instrument's memory and easily accessed via the INFO key on the keypad. Detailed instructions and troubleshooting tips are intended to provide adequate guidance to resolve most problems on site.

The Model 56 advanced dual-input analyzer supports continuous measurement of one or two sensor inputs. The modular design allows signal input boards to be field replaced, making configuration changes easy. The high resolution full-color display gives unsurpassed visibility and functionality for liquid analytical instrumentation.



A typical help screen in Model 56.

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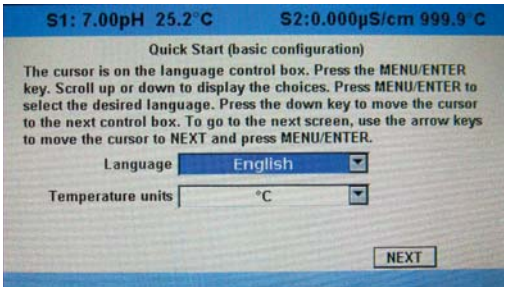
FEATURES

Full Color Display: The high resolution full-color display allows easy at-a-glance viewing of process readings – indoors or outdoors. Six additional process variables or diagnostic parameters are displayed for quick determination of process or sensor condition.

Quick Start Programming: Simple Quick Start screens appear the first time the unit is powered. The instrument auto-recognizes each type of measurement board and prompts the user to configure each sensor loop in a few quick steps for immediate live readings.



Thirty days of measurement data from both channels every 30 seconds can be displayed on -screen or uploaded to a USB memory device.

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Wireless THUM Adaptor compatible: Enable wireless transmissions of process variables and diagnostics from hard-to-reach locations. When commissioned with the THUM Adaptor, Model 56 can communicate on Emerson wireless networks using HART 5 or 7 wireless protocol.

Supports Other Advanced Features:

Specialized measurements:

- High reference impedance pH sensors
- Ion Selective Electrode measurements
- Inferred pH determination using dual contacting conductivity inputs
- Differential conductivity
- Differential flow and Totalized flow
- Dual range calibration for chlorine sensors

Measurement Performance

- Programmable polarizing voltage for amperometric oxygen sensors
- Extended high-end conductivity range for contacting conductivity sensors
- Extended low-end conductivity range for inductive conductivity sensors
- Noise immunity to high RF or line noise environments

Advanced User support

- Current outputs assignable to any live parameter or diagnostic
- Optimized and programmable input filters
- Pre-formatted EXCEL data tables from USB downloads
- Menus in 9 languages
- Troubleshooting Guide
- Security access
- Advanced diagnostics

Additional software, hardware and design features:

- pH loop calibration by entering pH slope and reference offset
- Current input from any 4-20mA source
- Linear or logarithmic setting for current outputs
- Scalable and assignable onscreen trend graphs
- 4 current outputs
- NEMA 4x IP66

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