Overview

Independent Dual Input Measurements

- Expandable to two channels of liquid analytical measurements: pH/ORP, Conductivity, Free Chlorine, Total Chlorine, Dissolved Oxygen, Ozone, and Turbidity.
- Modular boards with auto-recognition of sensor board.
- Large, easy to read, user customizable display of dual measurements in addition to diagnostic and temperature readings.

Reduced Installation and Maintenance Time

- Shorter installation times using Quick Start programming at initial install or after factory reset.
- Effortlessly connect with PLCs and DCS' by choosing the HART or Profibus DP communication options.
- Display measurements, configure alarms, and conduct maintenance with a simple to use local operator interface.
- Efficiently manage your devices using intuitive device dashboards on AMS/475 Communicators.

Accurate, Linear and Reliable Measurements of Analytical Sensors

- Faster calibration of pH sensors using auto pH Buffer solution detection.
- Linear conductivity measurements with on-board concentration curves for common acids and bases.
- Built-in features to easily display accurate amperometric and turbidity measurements.

Contents

Specifications

General Analyzer

Enclosure

Material: Polycarbonate.

Rating: Type 4X and IP65.

Dimensions: 6.10 in. L x 6.10 in. W x 5.45 in. H
(155 mm x 155 mm x 131 mm)

Conduit openings: 1/2 in. or PG 13.5 conduit fittings.

Display

Features: User customizable, monochromatic graphic liquid crystal, back lit display.

Display Resolution: 128 x 96 pixel display resolution.

Dimensions: 3.8 in. (Diagonal)

Ambient Conditions

Temperature: 32 to 131 °F (0 to 55 °C)

Temperature for Turbidity: 32 to 122 °F (0 to 50 °C)

Relative Humidity: 5 to 95% (non-condensing)

Storage Temperature: -4 to 140 °F (-20 to 60 °C)

Power

01: 115 Vac ±15% 60 Hz ±6%, 10 W;
230 Vac ±15% 50 Hz ±6%, 10 W.

02: 20 to 30 Vdc. 15 W.

03: 84 to 265 Vac, 47 to 63.0 Hz. 15 W.

Power option codes 02 and 03 include four programmable relays.

⧈ Equipment protected by double insulation.

Relays

Form C, SPDT, epoxy sealed

Maximum Relay Current	
	Resistive
28 Vdc	5.0 A
115 Vac	5.0 A
230 Vac	5.0 A

Inductive Load: 1/8 HP motor (maximum) at 115/230 Vac

*Relays only available with option 02 power supply (20 - 30 Vdc) or 03 switching power supply (84 - 265 Vac)

Alarm Relays

Four configurable alarm relays for process measurement as alarms or faults with interval timer settings.

Terminal Wire Sizes

Power: 24-12 AWG

Analog outputs: 26-16 AWG

Relays: 24-12 AWG

Weight/Shipping Weight (rounded to nearest 1 lb. or 0.5 kg)

3 lb./4 lb. (1.5 kg/2.0 kg)

Product Certifications

Hazardous Location Approvals (Not available for DP)

Class I, Division 2, Group A, B, C, and D

Class II, Division 2, Groups E, F, and G

Class III T4A Tamb = 50 °C

Evaluated to the ANSI/UL Standards. The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S. respectively.

Class I, Division 2, Group A, B, C, and D

Class II and III, Division 2, Groups E, F, and G

T4A Tamb = 50 °C, Enclosure Type 4X

Ordinary Locations: (only with UL ordering option)

Pollution Degree 2

Normally only non-conductive pollution occurs. Temporary conductivity caused by condensation possible.
Altitude: 6562 ft. (2000 meter) maximum

Radio Frequency Immunity/Electromagnetic Interference (RFI/EMI)

EN-61326

Low Voltage Directive (LVD)

EN-61010-1

European Directive Information

A copy of the EC Declaration of Conformity can be found at the end of the Quick Start Guide and the User's Manual. The most recent revision of the EC Declaration of Conformity can be found at www.Emerson.com/RosemountLiquidAnalysis.