

# DUAL-INPUT INTELLIGENT ANALYZER

- **Large, easy-to-read display:** Check your process condition at a glance
- **Dual measurements** in any combination of pH/ORP, Conductivity, Chlorine, Dissolved Oxygen, Ozone, Turbidity and more
- **HART® and PROFIBUS® DP** digital communications options
- **Intuitive Menus:** Self-prompting and easy to navigate. User Help screens
- **Easy installation** with simple wiring and slide-out measurement boards
- **7 menu languages** – English, French, German, Italian, Portuguese, Spanish and Chinese
- **FM and CSA** – Class I Div 2 approved, **UL** approved for general purpose



**MODEL 1056**

Multiparameter analyzer with large easy-to-read screen



This new Rosemount Analytical Inc. product by Emerson Process Management is designed for use in the following Industries: Pulp & Paper, Metals & Mining, Chemical Processing, Food & Beverage, Life Sciences, Waste/Wastewater, Petroleum Refining, Semiconductor, Power and General Applications



**ROSEMOUNT**<sup>®</sup>  
Analytical

  
**EMERSON**<sup>™</sup>  
Process Management

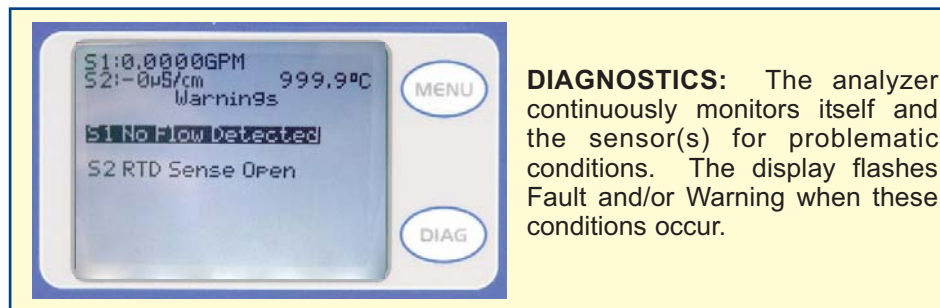
**EMERSON. CONSIDER IT SOLVED.™**

## FEATURES and APPLICATIONS for MODEL 1056

The Model 1056 dual-input analyzer offers single or dual sensor input with an unrestricted choice of dual measurements thus reducing the cost per loop and saving panel space. This multi-parameter instrument offers a wide range of measurement choices, supporting most industrial, commercial, and municipal applications.

The modular design of the instrument allows signal input boards to be field replaced making configuration changes easy. Live process values are always displayed during programming and

calibration routines. Standard features include isolated inputs, seven embedded local languages, two 4-20mA current outputs and removable connectors for power and current outputs. HART and Profibus DP digital communications are available. Model 1056 HART units communicate with the Model 375 HART® handheld communicator and HART hosts, such as AMS Intelligent Device Manager. Model 1056 Profibus units are fully compatible with Profibus DP networks and Class 1 or Class 2 masters.



**DIAGNOSTICS:** The analyzer continuously monitors itself and the sensor(s) for problematic conditions. The display flashes Fault and/or Warning when these conditions occur.

## PERFORMANCE and PHYSICAL SPECIFICATIONS

**Enclosure:** Polycarbonate. NEMA 4X/CSA 4 (IP65).

**Dimensions:** Overall 155 x 155 x 131mm (6.10 x 6.10 x 5.15 in.). Cutout: 1/2 DIN 139mm x 139mm (5.45 x 5.45 in.)

**Conduit Openings:** Accepts 1/2" or PG13.5 conduit fittings

**Display:** Monochromatic graphic liquid crystal display. 128 x 96 pixel display resolution. Backlit. Active display area: 58 x 78mm (2.3 x 3.0 in.).

**Ambient Temperature and Humidity:** 0 to 55°C (32 to 131°F). Turbidity only: 0 to 50°C (32 to 122°F), RH 5 to 95% (non-condensing)

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

**Power: Ordering Code -01:** Code -01: 115/230 VAC ±15%, 50/60 Hz. 10W.

Code -02: 20 to 30 VDC. 15 W.

Code -03: 85 to 265 VAC, 47.5 to 65.0 Hz, switching. 15 W.

Note: Code -02 and -03 power supplies include four programmable relays

Approved by UL for use in ordinary locations and approved by FM and CSA for use in Class I Division 2 hazardous areas.

**Alarms relays\*:** Four alarm relays for process measurement(s) or temperature. Any relay can be configured as a fault alarm instead of a process alarm. Each relay can be configured independently and each can be programmed with interval timer settings.

\*Relays only available with -02 power supply (20 - 30 VDC) or -03 switching power supply (85 - 265 VAC)

**Relays:** Form C, SPDT, epoxy sealed

**Inputs:** One or two isolated sensor inputs

**Outputs:** Two 4-20 mA or 0-20 mA isolated current outputs. Fully scalable. Max Load: 550 Ohm.

**Current Output Accuracy:** ±0.05 mA @ 25 °C

**Terminal Connections Rating:** Power connector (3-leads): 24-12 AWG wire size. Signal board terminal blocks: 26-16 AWG wire size. Current output connectors (2-leads): 24-16 AWG wire size. Alarm relay terminal blocks: 24-12 AWG wire size (-02 24 VDC power supply and -03 85-265VAC power supply)

**Weight/Shipping Weight:** (rounded up to nearest lb or nearest 0.5 kg): 3 lbs/4 lbs (1.5 kg/2.0 kg)