

AMI
ADVANCED MICRO INSTRUMENTS



MODEL 3010B
TRACE H₂S



DEPENDABLE H₂S MEASUREMENTS MADE INCREDIBLY EASY

The **MODEL 3010BX** is AMI's neXt generation Trace H₂S Analyzer. Its patented technologies and superior design make the Analyzer the top pick among engineers and measurement technicians seeking reliable and accurate H₂S measurements in harsh conditions.

SUPERIOR PERFORMANCE

AMI's patented ELIMINATOR CELL BLOCK™ combines all the critical sample handling components, including a flow meter, metering valve, 3-way gas control valve, sensor pocket and pressure sensor, into one solid cross drilled block. This means the gas sample only needs to travel 4 inches to reach the sensor, ensuring a fast accurate measurement while keeping the Analyzer in a compact and robust footprint.

DESIGNED FOR THE USER

Front-loading H₂S sensor, intuitive controls and compact size are all design features that make installation and maintenance of the **MODEL 3010BX** the easiest of any Trace H₂S Analyzer in its class.

FULL SUITE OF STANDARD FEATURES

AMI's **MODEL 3010BX** comes standard with advanced features, including dual independent alarms, comprehensive alarm logic (fail safe or non-fail safe, latching or non-latching and independent alarm delays), alarm bypass and 3 levels of security settings. Automatic data logging provides detailed time-stamped records of H₂S measurement, gas pressure, temperature, supply voltage and power brown-out history.

UNMATCHED VALUE

The unique design of the **MODEL 3010BX** keeps cost low while offering unmatched features and easily handling some of the most difficult H₂S measurement requirements.

COMMON APPLICATIONS

- ▶ NATURAL GAS
- ▶ BIOGAS
- ▶ WASTEWATER

MODEL 3010B



PHYSICAL & ELECTRICAL SPECIFICATIONS

| WEIGHT | MOUNTING | GAS CONNECTIONS | WETTED PARTS |
|--------------------------------------|----------------------------|--|--|
| 16.0 lbs (7.26 kg) | Wall Mount or 2.0" Pipe | ¼" 316 S.S. compression fittings | 316 S.S. fittings, electro-less nickel-plated cell block, gold-plated contacts, acrylic flow meter & O-rings (Viton, kalrez, and Buna-N) |
| POWER | | | |
| DC | | AC | |
| 10 – 24 VDC, 150 mA max (non-heated) | | 100 – 240 VAC, 150 mA max (non-heated) | |
| 10 – 24 VDC, 2.2 amps max (heated) | | 100 – 240 VAC, 550 mA max (heated) | |



Note: 2-year Warranty for Parts & Labor for any defects in materials or workmanship. 1-year Warranty for H₂S sensors

OPERATIONAL SPECIFICATIONS

| OUTPUT RANGES (USER SELECTABLE) | | AMBIENT OPERATIONAL TEMPERATURE | | | FLOW RATE (RECOMMENDED) | INLET GAS PRESSURE | OPERATIONAL ALTITUDE | |
|---------------------------------|----------------------------|-----------------------------------|-----------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------|
| STANDARD RANGES | OPTIONAL HIGH RANGE SENSOR | NON-HEATED | HEATED | HEATED WITH EXTREME WEATHER ENCLOSURE | | | DC | AC |
| 0 – 10 ppm | 0 – 100 ppm | 25°F to 115°F (–3.9°C to 46°C) | –20°F to 115°F (–29°C to 46°C) | –40°F to 115°F (–40°C to 46°C) | 1.0 to 1.5 SCFH (0.5 – 0.75 Lpm) | 0.5 – 150 psig (0.03 – 10.3 bar) | ≤ 5,500 m (18,000 ft) | ≤ 2,500 m (8,200 ft) |
| 0 – 50 ppm | 0 – 500 ppm | | | | | | | |
| 0 – 100 ppm | 0 – 1000 ppm | | | | | | | |
| 0 – 200 ppm | 0 – 2000 ppm | | | | | | | |

SENSOR & ANALYZER PERFORMANCE SPECIFICATIONS

| LOW RANGE SENSOR | HIGH RANGE SENSOR | 90% FULL SCALERESPONSE TIMES @ 1.5 SCFH (0.75 Lpm) FOR SPECIFIC RANGES | | REPEATABILITY | ACCURACY | APPROVALS |
|---|---------------------------|--|------------------------------|--|---|--|
| Max Range 0 – 200 ppm | Max Range 0 – 2000 ppm | <120 sec for 0 – 100 ppm | <120 sec for 0 – 2000 ppm | ±1% of range or ±0.2 ppm of H ₂ S, whichever is greater | ±1.5% of full scale range at constant conditions | Class I, Division 1, Groups B,C,D, T4 Class I Zone 0/1, AEx ia/db IIB+H2 T4 Ga/Gb IECEX: Ex ia IIB+H2 T4 Ga/Ex db IIB+H2 T4 Gb UKCA/PESO: Ex ia/db IIB+H2 T4 Ga/Gb ATEX: II 1/2 G Ex ia/db IIB+H2T4 Ga/Gb Ingressed Protection: IP65 |
| RESPONSE TO OTHER GASES IN THE SAMPLE GAS (GIVEN THAT 100 PPM OF THE LISTED GAS IS PRESENT) | | | | | | |
| Methyl Mercaptan (40 ppm) | Carbon monoxide (4 ppm) | Hydrogen (1 ppm) | Sulfur dioxide (18 ppm) | | | |
| Note: For complete list, contact AMI | | | | | | |

ANALYZER KEY FEATURES

| | |
|---------------------------------|---|
| ELIMINATOR CELL BLOCK™ | Contains a Complete Sample System with all components, including the flow meter, metering valve, pressure sensor and 3-way Selection (Sample/Span/Off) Valve, fully integrated |
| ALARMS | 2 fully adjustable concentration alarms with configurable Alarm logic and Relay Contacts, featuring: <ul style="list-style-type: none"> ▶ Alarm Bypass ▶ Alarm Delays ▶ Trigger Above or Below Setpoint ▶ Latching/Non-latching ▶ Failsafe/Non-failsafe ▶ Open or Close on Alarm |
| INTERNAL PRESSURE SENSOR | Measures gas inlet pressure from 0 – 150 psig |
| ANALOG OUTPUTS | 1 – 5 VDC and 4 – 20mA isolated output signals and Modbus bi-directional RS485 communication |
| COMMAND CENTER | Software that works across AMI's Analyzers and gives users access to advanced functions: <ul style="list-style-type: none"> ▶ Error Status Display ▶ Data Logger (records H₂S measurements, temperature, psig, and power) ▶ Alarm Configurations ▶ Calibration Details |
| ACCESSORIES | <ul style="list-style-type: none"> ▶ Demister ▶ LRP ▶ Extreme Weather Enclosure |



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