



### DEPENDABLE H<sub>2</sub>S MEASUREMENTS MADE INCREDIBLY EASY

The **MODEL 3010BX** is AMI's ne**X**t generation Trace  $H_2S$  Analyzer. Its patented technologies and superior design make the Analyzer the top pick among engineers and measurement technicians seeking reliable and accurate  $H_2S$  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.

## COMMON APPLICATIONS

- NATURAL GAS
- ▶ BIOGAS
- WASTEWATER

### **DESIGNED FOR THE USER**

Front-loading H<sub>2</sub>S sensor, intuitive controls and compact size are all design features that make installation and maintenance of the **MODEL 3010BX** the easiest of any Trace H<sub>2</sub>S 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 H<sub>2</sub>S 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 H<sub>2</sub>S measurement requirements.



# **MODEL 3010B**

### **PHYSICAL & ELECTRICAL SPECIFICATIONS**

WEIGHT	MOUNTING	GAS CONNECTIONS	WETTED PARTS
16.0 lbs (7.26 kg)	Wall Mount or 2.0" Pipe	1/4" 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			
,	on-heated) neated)	100 – 240 VAC, 150 mA max 100 – 240 VAC, 550 mA max	'		



### **OPERATIONAL SPECIFICATIONS**

Note: 2-year Warranty for Parts & Labor for any defects in materials or workmanship. 1-year Warranty for H<sub>2</sub>S sensors

	RANGES LECTABLE)	A	MBIENT OPERATION TEMPERATURE		FLOW RATE	INLET GAS	OPERATIONAL ALTITUDE	
STANDARD RANGES	OPTIONAL HIGH RANGE SENSOR	NON-HEATED	HEATED	HEATED WITH EXTREME WEATHER ENCLOSURE	(RECOMMENDED)	PRESSURE	DC	AC
0 – 10 ppm 0 – 50 ppm 0 – 100 ppm 0 – 200 ppm	0 – 100 ppm 0 – 500 ppm 0 – 1000 ppm 0 – 2000 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)

### **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 <sub>2</sub> 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: (Ex) II 1/2 G Ex ia/db IIB+H2T4 Ga/Gb
RESPONSE TO	O OTHER GASES	Ingressed Protection: IP65				

Methyl Mercaptan (40 ppm)

Sulfur dioxide (18 ppm) Carbon monoxide (4 ppm) Hydrogen (1 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:  Delay: Alarm Bypass Alarm Delays Trigger Above or Below Setpoint Delay: Del				
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:  • Error Status Display • Data Logger (records H <sub>2</sub> S measurements, temperature, psig, and power) • Alarm Configurations • Calibration Details				
ACCESSORIES	<b>▶</b> Demister	▶ LRP	▶ Extreme Weather Enclosure		

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