

# Model 6022 H<sub>2</sub>S Analyzer

## Overview

The Model 6022 UV H<sub>2</sub>S Analyzer provides accurate measurement of CS (Combined Sulfur) or H<sub>2</sub>S (Hydrogen Sulfide) gas in air or low source levels from industrial processes. The Model 6022 H<sub>2</sub>S analyzer uses the same optical bench as the Model 6020 UV Sulfur Dioxide analyzer. An efficient H<sub>2</sub>S converter thermally converts H<sub>2</sub>S to SO<sub>2</sub>. SO<sub>2</sub> (Sulfur Dioxide) gas that may be present in the sample gas passes through the H<sub>2</sub>S converter unaffected. H<sub>2</sub>S and SO<sub>2</sub> combined in the sample gas is called CS. If H<sub>2</sub>S gas is the gas of interest, a SOX (SO<sub>2</sub> Scrubber) is attached to the rear of the Model 6022 and plumbed in series to remove any SO<sub>2</sub> that may be present. If there are other sulfur gases present in the sample gas, they will pass through the SOX scrubber and H<sub>2</sub>S converter unaffected and not measured.

Advanced, easy to use, menu-driven software allows access to sample conditions and diagnostics and the strip chart feature allows the user to view a time series plot for SO<sub>2</sub> readings.

The 6022 Analyzer offers a bright color display, data logging capability and advanced communications via Ethernet, USB and RS-232/485

## Standard Features

- ▶ Ranges: 0-25 ppb to 0-2 ppm user set
- ▶ Large color TFT LCD display
- ▶ Various user interface options including touch screen, front panel keypad, external keyboard and mouse
- ▶ Menu driven software
- ▶ Ethernet, USB and RS-232/485 ports
- ▶ Front panel USB connections for peripheral devices and firmware updates
- ▶ Automatic temperature and pressure compensation
- ▶ Comprehensive internal data logging
- ▶ Modbus protocol

## Optional Features

- ▶ Rear mounted H<sub>2</sub>S Scrubber
- ▶ Humidifier for H<sub>2</sub>S scrubber to keep SOX scrubber material active in dry climates
- ▶ Dilution module for measurement of low levels of H<sub>2</sub>S in CO<sub>2</sub> gas for the beverage industry



## SPECIFICATIONS

*Specifications subject to change without notice*

<b>Ranges</b>	0- 25 ppb to 0-2 ppm user set
<b>Noise</b>	<0.0005 ppm
<b>Lower Detectable Limit</b>	< 1 ppb
<b>Zero Drift</b>	<±0.003 ppm per 24 hours
<b>Span Drift</b>	<±1 % URL per 24 hours
<b>Cycle Time</b>	1 sample/second
<b>Precision</b>	<1 % of URL
<b>Linearity</b>	<1 % of URL
<b>Sample Flow Rate</b>	0.4 to 0.8 LPM
<b>Operating Temperature</b>	5° to 40° C (EPA approved range)
<b>Power Requirements</b>	200 Watts (depends on analyzer)
<b>Voltage Output Ranges</b>	0.1V, 1V, 2V, 5V, 10V, user-selectable
<b>Input/Output Ports</b>	0.1V, 1V, 5V, 10V or other, user-selectable with over & under range
<b>Physical Dimensions (HxWxD)</b>	5.25 in. x 17 in. x 22.5 in. (133 x 432 x 571.5 mm)
<b>Weight</b>	25 lbs. (10.3 kg)
<b>Certification - UV SO<sub>2</sub> Bench</b>	US EPA: RFSA-0616-237