

Model 6022 H₂S Analyzer

Overview

The Model 6022 UV H₂S Analyzer provides accurate measurement of CS (Combined Sulfur) or H₂S (Hydrogen Sulfide) gas in air or low source levels from industrial processes. The Model 6022 H₂S analyzer uses the same optical bench as the Model 6020 UV Sulfur Dioxide analyzer. An efficient H₂S converter thermally converts H₂S to SO₂. SO₂ (Sulfur Dioxide) gas that may be present in the sample gas passes through the H₂S converter unaffected. H₂S and SO₂ combined in the sample gas is called CS. If H₂S gas is the gas of interest, a SOX (SO₂ Scrubber) is attached to the rear of the Model 6022 and plumbed in series to remove any SO₂ that may be present. If there are other sulfur gases present in the sample gas, they will pass through the SOX scrubber and H₂S 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 SO₂ 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 Feature

- ▶ Rear mounted H₂S Scrubber
- ▶ Humidifier for H₂S scrubber to keep SOX scrubber material active in dry climates
- ▶ Dilution module for measurement of low levels of H₂S in CO₂ gas for the beverage industry



SPECIFICATIONS

Specifications subject to change without notice

Ranges	0- 25 ppb to 0-2 ppm user set
Noise	<0.0005 ppm
Lower Detectable Limit	< 1 ppb
Zero Drift	<±0.003 ppm per 24 hours
Span Drift	<±1 % URL per 24 hours
Cycle Time	1 sample/second
Precision	<1 % of URL
Linearity	<1 % of URL
Sample Flow Rate	0.4 to 0.8 LPM
Operating Temperature	5° to 40° C (EPA approved range)
Power Requirements	200 Watts (depends on analyzer)
Voltage Output Ranges	0.1V, 1V, 2V, 5V, 10V, user-selectable
Input/Output Ports	Rear Panel: Ethernet, USB Device, USB Host (2), RS-232/485 (2)
Physical Dimensions (HxWxD)	5.25 in. x 17 in. x 22.5 in. (133 x 432 x 571.5 mm)
Weight	25 lbs. (10.3 kg)
Certification - UV SO ₂	US EPA: RFSA-0616-237
Bench	