

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.

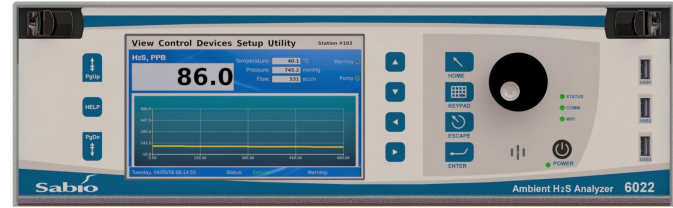
The 6022 Analyzer offers a bright color display, data logging capability and advanced communications via Ethernet, USB and RS-232/485

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 Features

- ▶ 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

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| 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 | 0.1V, 1V, 5V, 10V or other, user-selectable with over & under range |
| 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 SO₂ Bench | US EPA: RFSA-0616-237 |