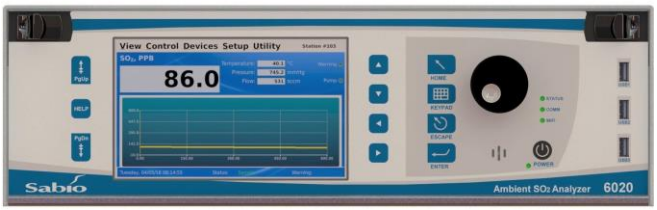
Sabio environmental *ambient pollution analyzers and calibration systems*

Model 6020 SO_2 Analyzer



Overview

The Model 6020 SO_2 Analyzer provides an accurate and convenient means of measuring low levels of Sulfur Dioxide in ambient air.

The Model 6020 measures sulfur dioxide by detecting the fluorescence of SO2 when exposed to ultraviolet (UV) radiation at wavelengths near 214 nm. The SO2 molecule fluoresces (reradiates) at longer wavelengths of approximately 360 nm, which is detected and measured by a photomultiplier tube (PMT). Narrow band optical filters are used to separate the 215 nm excitation light from the 360 nm fluorescing light. The Model 6020 consists of a sample inlet, hydrocarbon scrubber (kicker), optics, UV lamp, reaction chamber, PMT, UV detector, and associated electronics.

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 ozone readings.

The 6030 Analyzer offers a bright color display, data logging capability and advanced communications via Ethernet, USB and RS-232/485

Standard Features

- Ranges: 0-50 ppb to 0-20 ppm (User selectable
- Measurement units: ppm, ppb
- Large color TFT LCD display
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- Various user interface options including touch screen, front panel keypad, external keyboard and mouse
- Menu driven software
- Ethernet TCP/IP, USB and RS-232/485 ports
- Front panel USB connections for peripheral devices and firmware updates
- Four independent analog inputs / outputs VCD with flexible ranges
- 8 standard digital input/outputs (I/Os)
- Automatic temperature and pressure compensation
- Comprehensive internal data logging
- Modbus protocol

Optional Features

- Zero/Span ports
- 4 – 20 mA current outputs

SPECIFICATIONS

EPA Approved Range	0-500 ppb
Noise	< 0.2 ppb
Lower Detectable Limit	< 0.4 ppb
Zero Drift	< 0.5 ppb per 24 hours
Span Drift	< 0.5% of reading/24 hr
Cycle Time	sample/second
Precision Linearity	< 1% of full scale
Sample Flow Rate	0.4 to 0.8 LPM
Operating Temperature	5° to 40° C (EPA Approved Range)
Operating Humidity	0 to 90%, non-condensing
Power Requirements	Universal Power Supply, 90-264 VAC, 100 VA, 50/60 Hz 200 watts
Voltage Output Ranges	0.1V, 1V, 2V, 5V, 10V, user 90-264 VAC, 100 VA, 50/60 Hz (User selectable)
Input/Output Ports	Rear Panel: Ethernet, USB Device, USB Host (2), RS-232/485 (2)
Physical Dimensions (H x W x D)	5.25 in. x 17 in. x 22.5 in. (133 x 432 x 571.5 mm)
Weight	25 lbs. (10.3 kg)
Certification	US EPA: RFSA-0616-237

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*Specifications subject to change without notice

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