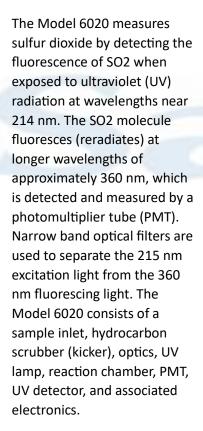# Model 6020 SO2 Analyzer

The Model 6020 SO2 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 various diagnostics, and the visual graph for users to view a time series plot for SO2 readings. The 6020 SO2 Analyzer offers a bright color display, data logging capability, advanced communications via Ethernet, USB and RS-232/485, universal power supply, and a DC internal pump for easy installment in rack systems or bench top applications.

Specifications

Specifications subject to change without notice
All specifications are based on constant conditions

Ranges	0-50 ppb, 0-100 ppm User set
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
Response Time	60 seconds to 95%
Precision	<0.5% of reading
Linearity	<1 % of URL
Sample Flow Rate	0.4 to 0.8 LPM
Operating Temperature	0° to 45° C
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	5.25 in (H). x 17 in. (W) x 22.5 in.(L)
Weight	35 lbs. (20.41 kg)
Certification	US EPA: RFSA-0616-237 (SO2 Bench)
Display	7" Wide View Color LCD Touchscreen
Interface	Touchscreen, Front Panel Keypad, External Keyboard, Mouse
Communications	Ethernet, USB and RS-232/485 Ports, Modbus protocol, Analog I/O, Digital I/O
Features	Automatic temperature and pressure compensation, Comprehensive internal data logging
Options	Internal zero & span check Internal Pump Rack Mount Kit
Applications	Ambient Air Monitoring Roadside Air Monitoring