HORIBA APSA-370

SO₂-Immission Monitor Data sheet

970) 2014	
SO2 0.0450 ppm	
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Abstract

Our type approved instrument APSA-370 is a continuously operating analyzer for the determination of SO2 in the ambient air. Other applications exist in different areas of the process and trace analysis.

Overview

The HORIBA instrument APSA-370 is a UV fluorescence monitor. The sample gas is irradiated by a UV lamp (Xe) and stimulates the SO2 molecules to vibrate. The emitted UV light is proportional to the SO2 concentration of the sample gas. An electronic signal processing to correct variations in light intensity. Known cross-sensitivities are eliminated. The instrument has implemented an internal sample gas pump. Type approved according to EN-14212 (Continuous ambient air quality measurements in stationary use).

Features

- ✓ Approval according to EN 14212: TÜV 936/21204643/D and 0000028757_03 Continuous measurement of SO2
- ✓ in ambient air
- Xenon flash lamp with no moving parts to wear
- Mirror unit instead of optical filters for better light transmission
- HC-cutter reduces interference from hydrocarbons
- Critical orifice for constant flow
- Pressure and temperature compensated
- Optimized components to reduce maintenance costs and power consumption
- Reduced weight design allows easier handling
- Internal sample gas pump
- Optional module for internal function control
- ✓ Large touch-screen display
- Password protection against unauthorized access
- Remote software for an external operation
- High connectivity via RS232, Ethernet or analog (optional)
- Build-in alarm system for troubleshooting and predictive diagnostics
- Internal memory for different average values, calibration history and alarm history
- CF slot allows for memory expansion

Specifications

Principle	UV fluorescence (UVF)	
Application	SO ₂ in ambient air	
Range	Standard ranges: 0-0.05/0.1/0.2/0.5 ppm; auto range ~ manual range selectable; can be operated by remote switching. Optional: Extension of range: 0-10 ppm, within 10 times range ratio;	
Certified Range	0- 1000 µg/m ³ (0- 376 ppb)	
Lowest Detection Limit (LDL)	0,5 ppb (3δ)	
Repeatability Linearity	±1.0% of F.S. ±1.0 % of F.S.	
Linearity	$(\pm 0,3\%)$ of F.S. according to type test)	
Zero Point Drift	<pre></pre>	
Span Point Drift	<pre>< LDL/Day, < LDL/Month (according to type test)</pre>	
Flow Rate	approx. 0,7 l/min	
Response Time (T ₉₀)	< 120 sec. (minimum measurement range) (< 86 sec. according to type test)	
Indication	Large TFT touch-screen display with simultaneous display of all current values, and the status information of the instrument.	
Readings	Concentration in ppm (ppb) or mg (µg)/m ³	
Compensation	Pressure and temperature	
Languages	English, German, French, and Japanese.	
Interfaces	RS-232C (Bayern Hessen / HORIBA Protocol) Ethernet (HORIBA Protocol)	
Options	Analog output 0-1/10 V or 0(4) - 20 mA Long-term data storage Calibration units Further options on request	
Operating Temperature	0-40°C Note: The sample gas has to pass through the system without condensation	
Power	230 VAC +/-10%, 50 Hz, ca.150 VA (130 VA according to type test)	
Dimensions	430(B) x 550(T) x 221(H) mm (5HE)	
Housing	19" incl. telescopic rails	
Mass	approx. 19 kg	
Standard auxiliary equipment	Delivery includes rails and mounting brackets for 19 "rack mount, switching valve for sample gas / calibration gas, potential free contacts for control of SGG	