

Oxygen Analyser for measurement in the Vol. % - Range AMS 3220



available options:

- pressure reducer
- particle filter 2-7 μ m
- manual 5 way valve
- electronical/pneumatic gas supply pump
- electronical flowmeter
- auto-Calibration
- back purge
- 2 free adjustable measuring values
- different housings

The Application:

The Oxygen Analyser AMS 3220 is designed for the measurement of Oxygen concentrations in noble gases and process gases without combustible impurities. For this application the Oxygen Analyser AMS 3220 is equipped with a Zircondioxid sensor. Due to the compact design the Oxygen Analyser AMS 3220 fits in an electronic housing IP20, 28 TE, 3 HE with a depth of 250 mm. The Oxygen Analyser AMS 3220 is available in different housings for General Applications and classified areas. The Oxygen Analyser AMS 3220 is certified by the German TÜV according European and German environmental regulations and fulfils the requirements for QAL 1 according EN 14181 and EN ISO 14956. The Oxygen Analyser AMS 3220 is tested for suitable flue gas applications according to TA-Luft, 13. und 17. BImSchV.

The Measuring principle:

The Zircondioxid sensor is the ideal detector for the measurement of Oxygen in gases without combustible impurities. The Zircondioxid sensor can be installed in the housing of the Oxygen Analyser AMS 3220. Using a calibration adapter with the Zircondioxid sensor, the Zircondioxid sensor can also be installed directly in a process gas pipe. This setup allows easy supply of calibration and reference gas to the sensor by using a separate pneumatic unit. In combination with the optional, time controlled auto-calibration feature the already high accuracy and reproducibility of the Oxygen Analyser AMS 3220 is improved further.

The Measuring system:

A long list of options allows to adapt the Oxygen Analyser AMS 3220 for almost every application. Four measuring ranges with automatic switch-over and digital measuring range recognition can be set freely within the maximum measuring range. The software for remote control and remote service with access via the customer computer network further increase the flexibility of the Oxygen Analyser AMS 3220 in a application.

Technical Data

Analyser	AMS 3220 Analyser
Application	Certified for flue gas applications according European and German environmental regulations
Measuring principle	ZrO ₂ sensor with Pt-electrodes
Measuring range	0 ... 25 Vol%
Analogue signal port	(0) 4 ... 20 mA or 0 ... 10V, galvanically separated
Reproducibility	+/- 2 % of the measuring value
Resolution	C(O ₂) – 0,01 %
T90-Time	< 20 sec.
Display	2* 16 digit, illuminated LCD display 1. Line: display of concentration in Vol % 2. Line: messages, device status, sensor parameters
Messages	1 System message (measuring value yes / no) max. 2 messages configurable as measuring values
Digital communication	serial interface RS232
Ambient operation temp.	+ 5 °C up to + 45 °C
Power supply	24 / 110 / 230 VAC
Protection / Housing / Dimensions	IP65 / wall mounting housing / ca. 300 x 320 x 130 mm (hxbxt) IP20 / electronics unit 28 TE / 3HU IP54 / portable housing 42 TE / 3 HE IP 54 / panel mounting 144 x 144 mm
Approvals	TÜV certification 936/807023/A of 14.08.2000
Weight	2,5...10 kg
Options	auto-calibration back purge for high dust concentrations pressure reducer particle lfilter 2-7µm manual 5 way valve electronical/pneumatic gas supply pump electronical flowmeter software for remote control and service
Version: AMS 3220 E V-2013-07	

Specification subject to change.