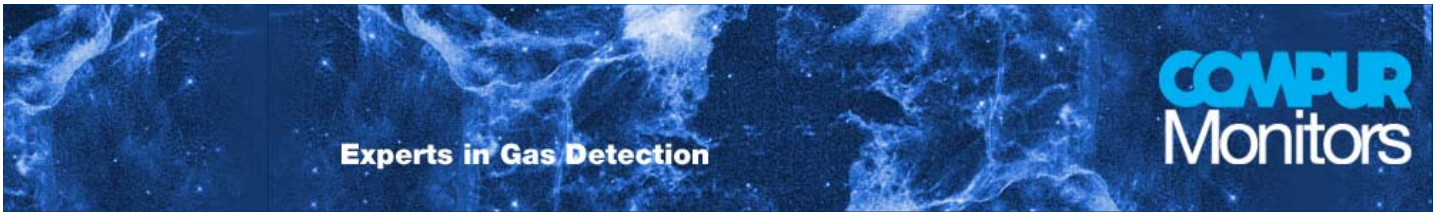

Home
Fixed Systems
Gas Detector Statox
Gas Detector Statox 501
Combustible Gas Detector Statox 501 IR
Carbon Dioxide Gas Detector Statox 501 IR
Combustible Gas Detector Statox 501 LC- and MC IR
New Gas Detector Statox 505 SIL
Gasdetector VOC Statox 501 PID
Portable Instruments
Discontinuous Methods
Technical Newsletter
Compur Monitors
News
Downloads
Imprint
Brochure Download
Data privacy

Gasdetector by Compur: Statox 501 PID detects VOC and other hazardous Gases

Statox 501 PID - the Allrounder

PIDs (Photo – Ionisation – Detectors) detect VOCs (Volatile Organic Compounds) in the ppm range, which other sensor types are unable to monitor, like solvents and fuels.

A PID sensor uses high energy ultra violet light radiation to break gas molecules into radicals, which are discharged while passing a condenser. The discharge current increases proportional to the number of molecules, i. e. the gas concentration. The standard Statox 501 PID will detect all substances with a ionization energy below 10,6 eV

PIDs are normally calibrated with Isobutene. Other gases will be detected with different sensitivity. These so - called response factors must be multiplied with the displayed concentration when adjusting span. Compur Monitors will adjust your Statox 501 PID individually to your application ex works.

A magnetic pin gives access to simple parameter setting and calibration menu. A multi - color LED signalises the status of the system.

The Statox 501 PID voltage output signal is similar the the signal of a catalytic sensor. The Statox 501 control module displays the measured value and provides an analog output and 3 powerful relay outputs for alarm devices or pcs.

Technical Data	
Detectable Gases	All Substances of which the potential of ionisation is smaller than 10,6 eV
Measuring programs	0 - 10, 0 - 100, 0 - 1000,0 - 10000 ppm
Measuring principle	Photo - Ionisation
Response time	Isobutene: t_{90} < 30 s
Operating temperature	- 30 to + 60°C
Humidity	0 - 95 % r. F. non condensing
Pressure	700 - 1300 hPa
Power supply	4,6 to 5,6 VDC
Current	app. 50 mA, initial current max. 150 mA for 0,3 s
Wiring	3 - Wire
Operation	with Statox 501 Controller
Weight	ca. 1,0 kg
Dimensions	160 x 130 x 60 mm HxWxD
Material: Housing Interface	 Cast aluminum Stainless steel

The Statox 501 PID consists of housing, sensor interface, and flange. The flow adapter and the magnetic pin are accessories.

Statox 501 PID manual

Statox 501 PID brochure

Ingress protection	minimum IP 54
Approval	II2G Ex e [ib] mbIIC T4 Gb
Approval No.	BVS 12 ATEX E 014