

# You always know what is going on in your plant: Gas detection system **Stattox 505**



**SIL 2**

Safety Integrity Level  
EN 50402

The Statox 505 is a 4-20 mA Transmitter for toxic gases and oxygen. It features everything that a new instrument generation needs: State of the Art components (hardware and software), smart sensor technology, “heartbeat” sensor control, complete system diagnostics on board.

# Reliability: feedback included



## What makes the Statox 505 so reliable

In process monitoring, status information of plant components in case of a failure is becoming more and more a critical issue. The standards DIN EN 61508 as well as the product standard DIN EN 50402 are powerful tools to calculate the probability of a failure on demand. The Statox 505 complies with all of the requirements of these standards. It complies with safety integrity level SIL 2. This provides a reliable database for the user to calculate the safety standard of his plant. If the Statox 505 is operated as a SIL 2 component, a so called “proof test” in certain time intervals is mandatory.



## All OK

All important parameters such as sensor „heartbeat“, signal output, calibration, zero, sensitivity, temperature, sensor memory, amplifier, CPU, power supply etc. are continuously monitored for proper function. In case of a failure, an alarm will be triggered. Thus **the system cannot fail without the error being noticed**. A green LED signalizes the system status. The display and the controls are located at the inside of the housing and well protected from the elements.

## Trouble-free wall- or pipe-mounting

The Stattox 505 sensor head comes with a mounting plate for either wall- or pipe-mounting. No need to open the sensor head for plant installation.



## Minimum time and work in the field

The sensors of the Stattox 505 are plug and play technology. Each sensor has a F-RAM on board which communicates all relevant parameters to the sensor head: gas, measuring range, last calibration, ex works calibration, response time etc.

The sensors can easily be calibrated in the shop. For the user this means that he never ever will have to do

calibration work in the harsh elements (wind, rain, cold, heat). No more lugging heavy test equipment and gas cylinders into the field. All the user has to do in the field is plug the sensor back in. To do that, you don't even need a tool! While the sensor is getting calibrated in the shop, the sensor cartridge stays in place and protects the sensor head from dust and rain.

# Technical data **Statox 505**

Product name	Statox 505 Transmitter
Type	5375 . . .
Manufacturer	COMPUR Monitors GmbH & Co. KG, 81539 München
Detectable gases	AsH <sub>3</sub> , Cl <sub>2</sub> , ClO <sub>2</sub> , CO, COCl <sub>2</sub> , H <sub>2</sub> S, HCl, HCN, NH <sub>3</sub> , N <sub>2</sub> H <sub>4</sub> , NO <sub>2</sub> , O <sub>2</sub> , O <sub>3</sub> , PH <sub>3</sub> , SO <sub>2</sub>
Measuring principle	Electrochemical
Operating temperature	-30°C to +60°C
Storage temperature	-30°C to +60°C
Humidity	0 to 99% r.h. (non condensing)
Pressure	900 to 1100 hPa
Power supply	12 - 28 VDC, max. 22 mA
Wiring	2- or 3-Wire
Output	4 - 20 mA, max. load 700 Ohm
· Service Mode	2 or 4 mA adjustable
· System Fail Mode	0 mA 3-Wire-, 2 mA 3-Wire operation
· Overrange	22 mA
Display	8-digit, 14 Segments
Dimensions (H x W x D)	200 x 120 x 90 mm without mounting plate
Weight	0,75 kg
Material	Chromium plated ABS, mounting plate stainless steel
Protection class	IP 65
Approval	Ex ib IIC T4
Application	II 2 G
Certificate No.	BVS 09 ATEX E 104
Engineering data	Voltage U <sub>i</sub> max. 28 VDC Current I <sub>i</sub> max. 93 mA Internal capacity C <sub>i</sub> negligible Internal inductance L <sub>i</sub> negligible
RMI	EN 50270 compliant
Safety Integrity Level	SIL 2 compliant to EN 50402



**Deutschland:**  
**COMPUR Monitors GmbH & Co. KG**  
 Weißenseestraße 101  
 D - 81539 München  
 Phone ++49 89 620 38-0  
 Fax ++49 89 620 38-184  
 compur@compur.de · [www.compur.com](http://www.compur.com)

**USA, Canada:**  
**COMPUR Monitors Inc.**  
 100. E. Nasa PKWY Suite 308  
 USA - Webster TX 77598  
 Phone: ++1 281 338 78 85  
 Fax: ++1 281 557 79 11  
 USCompur@compur.us

**Belgium, Netherlands, Luxemburg:**  
**COMPUR Monitors B.V.**  
 De Veldoven 49  
 NL - 3342 GR Hendrik Ido Ambacht  
 Phone: ++31 78 682 05 37  
 Fax: ++31 78 682 19 36  
 info@compur.nl · [www.compur.nl](http://www.compur.nl)

**Frankreich:**  
**COMPUR Monitors SARL**  
 155 Avenue du General de Gaulle  
 F - 92140 Clamart  
 Phone: ++33 1 45 37 89 51  
 Fax: ++33 1 45 37 88 56  
 compur@compur.fr · [www.compur.fr](http://www.compur.fr)

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