Experts in Gas Detection

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Statox 505 SIL 2 compliant

You always know what is going on in your plant: Gas detection system Statox 505 compliant to SIL 2 Standard

Intelligent Gas Sensors for AsH_3, Cl_2, ClO_2, CO, $COCl_2$, H_2, H_2S, HCl, HCN, HF, N_2H_4, NH_3, NO_2, O_2, O_3, PH_3 and SO_2

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

What makes the Statox 505 so reliable?

In process monitoring, the status 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 obtained the 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.

Minimum time and work in the field

The sensors of the Statox 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.

Trouble- free wall - or pipe mounting

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

Technical Data

From outside a green LED signalizes the sensor head is operating properly

Inserting the sensor module converts the gas -neutral sensor head into a gas specific gas detector. The stainless steel cartidge can stay in place, even if the sensor is not yet built in and thus protects the interior sensor head from dust and rain.

Manual

Sensors	Measuring range	Operating temperature	Humidity
Ammonia NH_3	0-150 ppm	-20 - +50°C	15-95%
Hydrogen cyanide HCN	0-20/100 ppm	-20 - +50°C	20-95%
Chlorine Cl_2	0-5 ppm	-20 - +50°C	20-95%
Carbon monoxide CO	0-300 ppm	-20 - +50°C	20-90%
Hydrogen fluoride HF	0 - 10 ppm	-20 - +50°C	20-90%
Oxygen O_2	0-35 %	-20 - +50°C	20-95%
Sulphur dioxide H_2S	0-20/100 ppm	-20 - +50°C	20-95%
Ozone	0 - 1 ppm	- 20 - + 50°C	20 - 90%
Nitrogen NO_2	0-5 ppm	-20 - +50°C	20-95%
Hydrogen H_2	0-300 ppm	-20 - +50°C	20-90%
Hydrogen chloride HCl	0-50 ppm	-20 - +50°C	20-95%
Arsine AsH_3	0-500 ppb	-20 - +50°C	20-80%
Phosphine PH_3	0-1 ppm	-20 - +50°C	20-80%
Hydrazine N_2H_4	0-1 ppm	-20 - +50°C	20-95%
Phosgene $COCl_2$	0-0,5/1,0/100 ppm	-20 - +50°C	20-95%

Chlorine dioxide ClO_2	0-1 ppm	-20 - +50°C	20-95%
Sulphur dioxide SO_2	0-5 ppm	-20 - +50°C	20-95%

Sensor head	Statox 505 Type 5375...
Display	8 - digits, 14 segments
Output	- 4-20 mA, max. load 700 Ohm, service mode: 0 or 2 mA, System fail 0 or 2 mA, overrange 22 mA
Protection class	IP 65
Approval	II 2 G EEx ib IIC T4
Dimensions (HxBxT) without mounting plate	200 x 120 x 90 mm
Pressure	900 - 1100 hPa
Operation- and storage temperature	- 30 °C to + 60°C
Power supply	12 - 28 V DC max. 22 mA
Weight	0,75 kg
Housing	Chromium plated ABS, stainless steel, mounting plate stainless steel
Operation voltage U_i	max. 28 V DC
Operation current	max. 93 mA
Internal capacity C_i	neglectible
Internal inductivity L_i	neglectible
EMC	EN 50270
Functional safety	SIL 2 according to EN 50402