

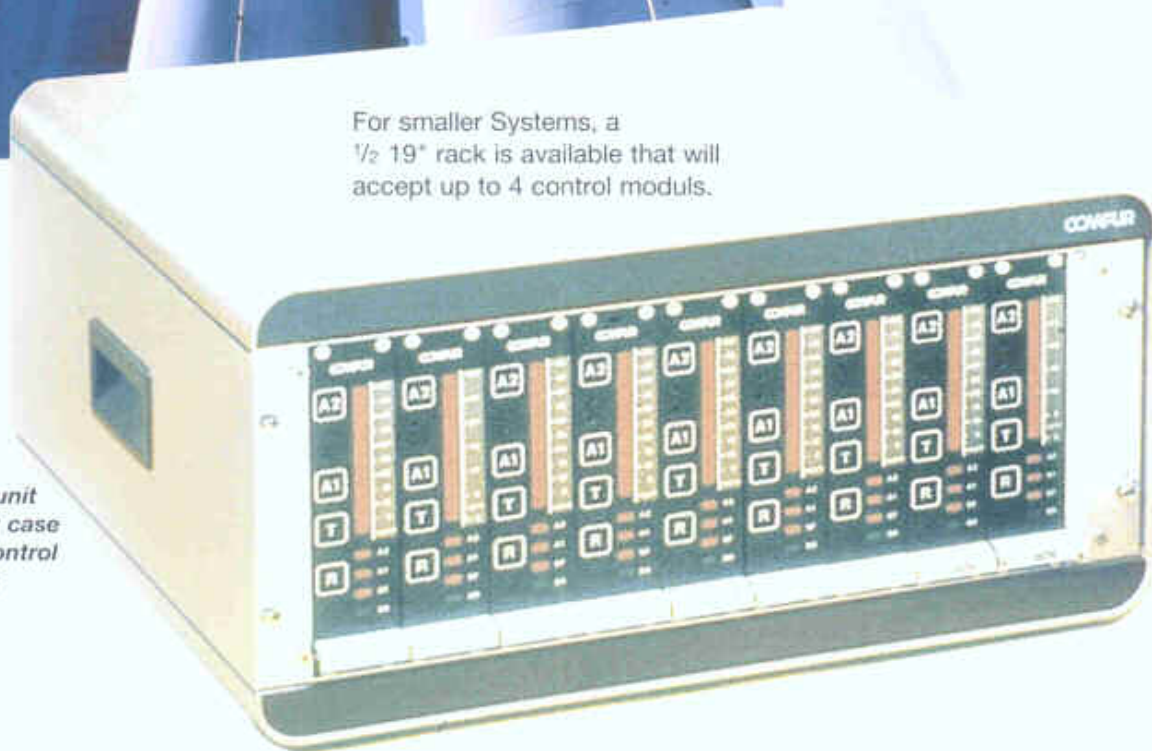
Compur Statox 4120 . . .

System configuration

The system consists of an intrinsically safe sensor head communicating with a control module. Up to 9 control modules can be located in a 19" rack where each combination sensor head - control module works as an independent gas detection system. Therefore, the total system can be expanded without limitation.

For smaller Systems, a 1/2 19" rack is available that will accept up to 4 control modules.

*Control unit
19" desk case
with 9 control
modules*



System Reliability by Automatic Self Check

Today's monitoring requirements demand a high degree of reliability and fault-free performance. The Statox system incorporates an

automatic self check routine every 24 hours. The system completely verifies and tests all components including the sensor for proper operation. The sensor is dynamically tested via an internally generated target gas which assures that its response and recovery meet

acceptable performance specifications. If a fault is detected in any of the components, it immediately notifies the control unit. The test can also be initiated manually either from the control panel or the remote sensor head.

The stationary system for detection of toxic gases with an integrated self test.

Detectable gases: Cl_2 , CO , COCl_2 , ClO_2 , HCN , H_2S , HCl , NO_2 , SO_2



Calibration box: Easy calibration and fault diagnosis

Pre-calibrated sensors

Compur's sensors are pre-calibrated at the factory. When a sensor is replaced during maintenance operations this allows the user to electronically calibrate the sensor head. All Compur Monitors sensors have been exposed to the TLV-concentration of the target gas. The current generated at this concentration is indicated on the sensor label. Every sensor carries a "Best Before Date". After this date, the sensor may be recalibrated using a standard gas with known concentration or replaced by a new, pre-calibrated

Compur Monitors sensor. Some gases are not available as span gas or are extremely difficult to handle. In this case, sensor replacement is usually the more economic solution.

No electromagnetic interference

The remote sensor heads are made of chromium plated ABS. This makes them extremely sturdy and resistant to electromagnetic radiation. The Statox is CE - approved. Its safety against electromagnetic interference has been proven by a qualified laboratory.

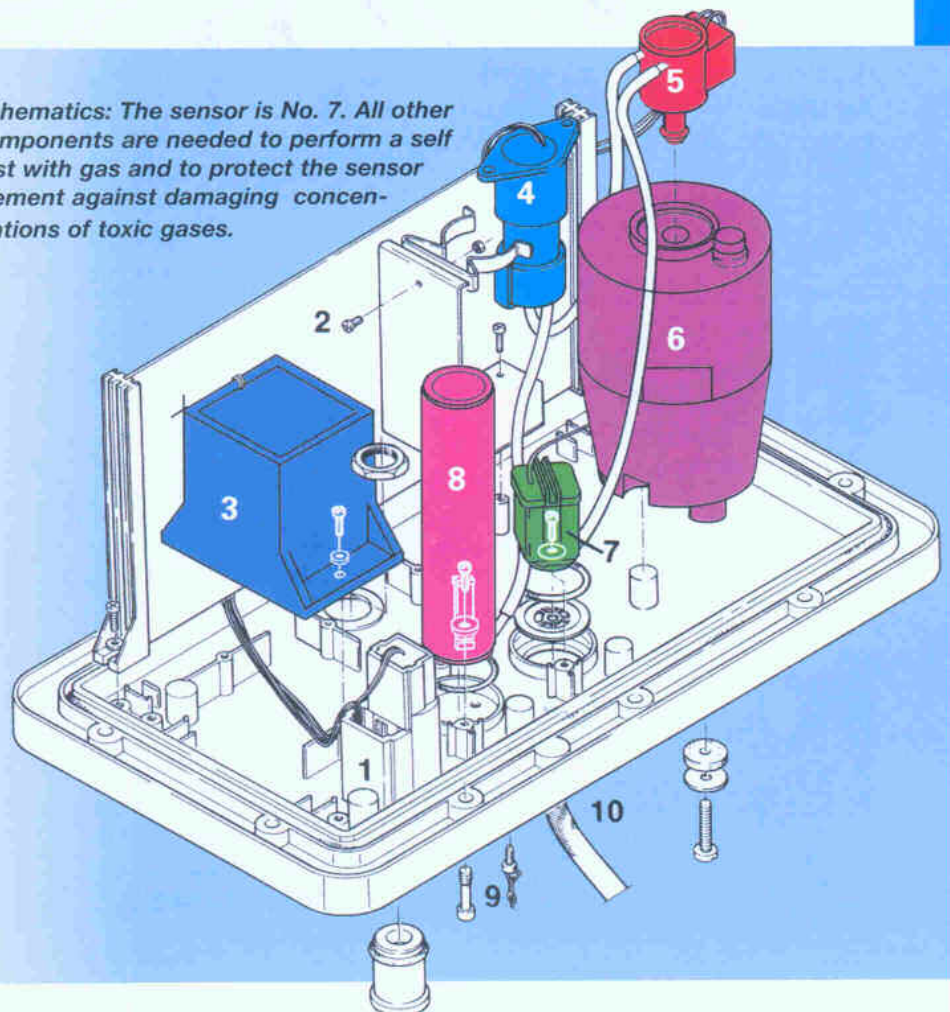
Green light means: Fault - free operation

The green LED on the front of the control module tells you all components of the system have passed the self test and are operating fault-free. This saves on preventive maintenance, which means cost and time.

Field proven sensor technology made by Compur Monitors

The sensors and technology used in the Compur Statox system have been field proven for several years. Since the sensor signal is temperature compensated in the measuring head, it is extremely stable over a wide humidity and temperature range. The Statox electrochemical sensors generate an electric current proportional to the gas that is to be measured. The gas concentration and system status are transmitted as a digital signal to the control module.

Schematics: The sensor is No. 7. All other components are needed to perform a self test with gas and to protect the sensor element against damaging concentrations of toxic gases.



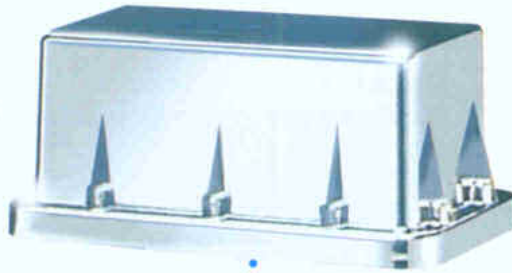
CompurStatox 4120 . . .



the „Big“
of kind

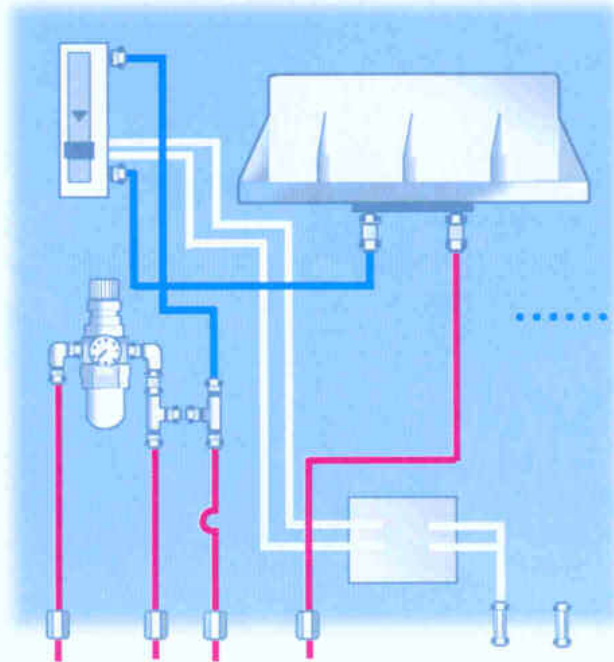
One - man calibration and fault diagnosis

Sensor calibration and system fault diagnosis are easily achieved by the use of the Statox portable calibration and diagnostic unit. This

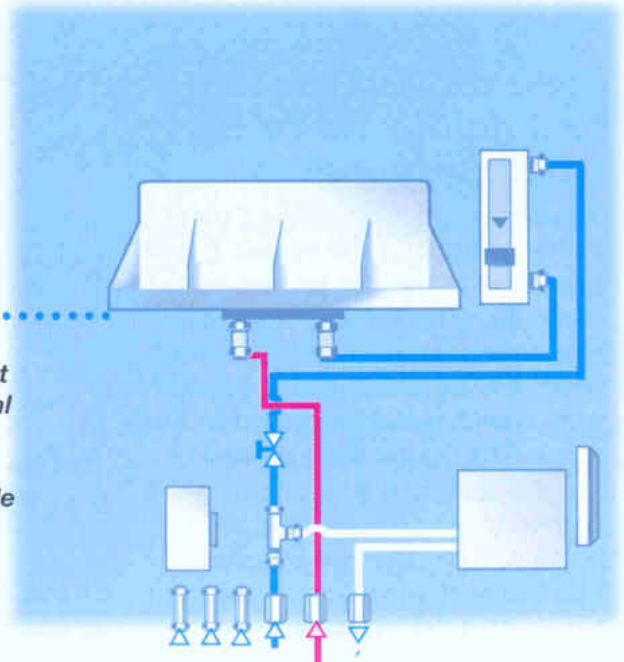


Sensor head: Housing chromium plated ABS, two-wire connection

intrinsically safe unit is connected by an optic coupler to the sensor head. This allows one person to electronically calibrate a new sensor, diagnose any faults, or initiate a complete system test. All this is done without ever having to open the sensor head.



Extractive measurement with electrical or air-injection pump. (Also available to operate in hazardous areas)
Examples



Technical data

Compur Statox 4120

Display and ports to peripheral instruments – all inclusive!

The Statox control unit updates and displays gas readings on a 30 character LED bar graph in either ppm or multiples of TLV. Each control unit is equipped with 3 alarm relays (max. 24 V, 100 mA) for low alarm, high alarm and system fault. An alarm condition is indicated on the front panel with red LED's (A1, A2, SF).

The green "system run" LED gives constant assurance that your monitoring system is communicating correctly and the concentration of gas is within the specified range. The alarm levels can easily be adjusted at the front of the control module. The alarm thresholds can be displayed by pushing a button on the front side. To initiate a new self test simply press the "ST" button, also located on the front of the control module. The next test routine will be initiated automatically after 24 hours.

Built-in sensor protection

To protect the sensor cell from being poisoned by high gas concentrations, the Statox features a built-in "clean air purge". This feature is activated automatically whenever the gas concentration exceeds 95% of the detection range. This activates a pump, circulating filtered air around the sensor cell, until the gas concentration at the cell drops to 80 % of the detection range.

Statox knows the difference: System failure or maintenance request

The measured values and the result of the self test are communicated as a digital signal to the control module. Therefore, an option is available to differentiate between a system failure and maintenance request. Because the Statox is able to distinguish the difference, this option can prevent unnecessary alarms or shutdowns.

	Measuring range	Temperature range	Humidity range*
Cl ₂	0 to 1.5, 3, 10 ppm	-4 to +104 °F	20 to 95% r. H.
CO	0 to 150 ppm	-4 to +104 °F	20 to 95% r. H.
COCl ₂	0 to 0.3, 0.5, 1.5, 15, 100 ppm	-4 to +104 °F	20 to 95% r. H.
ClO ₂	0 to 0.5 ppm	-4 to +104 °F	20 to 95% r. H.
H ₂ S	0 to 30, 50, 100 ppm	-4 to +104 °F	20 to 95% r. H.
HCl	0 to 100 ppm	-4 to +104 °F	20 to 95% r. H.
HCN	0 to 15, 30, 50, 100 ppm	-4 to +104 °F	20 to 95% r. H.
NO ₂	0 to 15 ppm	-4 to +104 °F	20 to 95% r. H.
SO ₂	0 to 5 ppm	-4 to +104 °F	20 to 95% r. H.
Pressure range		800 to 1200 hPa	
Alarms		2 adjustable alarm thresholds	
Relays		alarm 1, alarm 2, System 24 V 100 mA	
Output signal		4 to 20 mA; 0 to 1 V	
Display		bargraph	
Power consumption		max. 15 W / point of detection	
Power supply		230 V AC	
Ex Certificate	control module	in Statox rack	
	sensor head	EEx ib IIC T6	
	rack	EEx ib IIC	
	diagnostic box	EEx ib IIC T6	
Installation		19" control module	
Dimensions h x w x d	sensor head	7.1 x 7.1 x 11.8 in	
	diagnostic box	2.0 x 6.3 x 7.5 in	
	Rack 19"	7.1 x 19.1 x 16.6 in	
	Rack 1/2 19"	7.1 x 10.6 x 16.6 in	
Weight	sensor head	67 oz	
	diagnostic box	11.64 oz	
Approvals div. countries		Cl ₂ , COCl ₂ , H ₂ S	
EMV		CE conform	

*non condensing





For more detailed information please order our technical data sheets. Personal advice will be given by our agents or directly by the Compur Monitors Hotline:

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For people.