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Compur Statox LC IR and MC IR

Combustible Gas Detection - upgrade to upper class!

Monitoring the environment for explosive gases most of the time you would be looking for hydrocarbons. It is a characteristic of hydrocarbons that they have a number of C - H bonds. These bonds absorb infrared light at a wavelength of 3,4 mm (unsaturated hydrocarbons absorb at 3,3 mm). This effect can be used to reliably detect these substances

The most important advantage is that they are resistant against catalyst poisons and high concentrations. They can even be used in oxygen free atmosphere.

Another important advantage of this technology is that a failure cannot go unnoticed. If an important component such as lamp or detector fails, the system will recognise this as 100 % absorption (an alarm situation). Most infrared gas detectors are designed as so - called NDIR (Non Dispersive Infra Red) double- beam detectors. This means, the light beam is divided in two portions with different wavelengths. One is the measuring beam that will be absorbed by gas, the other is a reference beam at a wavelength that will not be absorbed by gas. This beam compensates for intensity variations of the lamp, dirt and corrosion. As the optics takes are mostly self maintained an eventual inspection only checks if there is gas access to the sensor. Therefore much longer maintenance interval compared to the catalytic sensor can be justified. As a rule of thumb, twice as long is OK.

For plants which already have the required combustible gas detection systems there is now a chance for a very cost- effective upgrade: The Statox 501 LC IR or LC MR!

It consists of an EEx e (enhanced safety) terminal box and a sensor with integrated electronics. This sensor operates at the same supply voltage as a catalytic sensor. Its output signal is also identical to the signal of a catalytic sensor! This new innovative technical approach keeps the price in the same ballpark as catalytic sensors!

To be precise, all the advantages of an infrared gas detector are now available for nearly the same price as a catalytic sensor and existing gas detection systems can now be upgraded without replacing the existing hardware.

Of course the miniaturised chip inside the sensor cannot provide the same powerful electronics and software package as a high- end instrument, but however the new Compur Statox 501 IR LC features the most important advantages of an infrared system. So the next time maintenance is due with your gas detection system check with Compur Monitors. The investment for an upgrade might pay back within one maintenance interval.



Manuals:

- [Statox 501 LC IR and MC IR](#)
- [Connecting the sensor head](#)
- [Reference factors](#)

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Sensor Head for combustible Gases	Technical Data IR LC	Technical Data IR LC
Detectable Gases	Methane	Hydrocarbons
Measuring Range	0 - 100 % LEL Methane	0 - 100 % LEL
Measuring Principle	Infrared Absorption	Infrared Absorption
Sensor Type	NDIR 2 - Channel	NDIR 2 - Channel
Detectable Limit	2 % LEL Methane	2 % LEL
Response Time	t ₉₀ < 30 s	t ₉₀ < 30 s
Temperature Range	- 20 to + 60°C	- 20 to + 60°C
Humidity	0 - 95 % r. H.	0 - 95 % r. H.
Pressure	700 - 1300 hPA	700 - 1300 hPA
Voltage	3,0 to 5,90 V DC	3,0 to 5,90 V DC
Current	80 mA	80 mA
Connection	3 - Wire	3 - Wire
Operation	With Statox 501 Controller	With Statox 501 Controller
Weight	580 g	580 g
Display	-	-
Output Signal	Same as catalytic Sensor	Same as catalytic Sensor
Enclosure	IP 54	IP 54
Approval	II 2 G EEx de IIC T5	II 2 G EEx de IIC T5
Dimensions	110 x 130 x 60 mm	110 x 130 x 60 mm
Weight	580 g, 20,5 oz	580 g, 20,5 oz
Max. Distance	750 m 3-Wire, 3000 m 5-Wire	750 m 3-Wire, 3000 m 5-Wire

