

## **Compur Statox 501 HRC and ARE SIL 2 detectors for combustible Gases**



## Stattox 501 HRC and ARE - Two Sensor Heads covering all explosive Hazards

Stattox 501 sensor heads HRC and ARE detect combustible gases in the range 0 – 100 % LEL. Both operate with catalytic sensors.

This sensor type burns the gas to be detected on the catalytic surface of the sensing element and thus increases its internal temperature and electrical resistance. This parameter is easy to measure. Therefore these sensor heads are robust and affordable.

Catalytic sensors respond to any kind of combustibles although not with the same sensitivity for different substances. Stattox 501 HRC is the better choice for volatile hydrocarbons, while the ARE type is very good for solvents and fuels.

Both sensor heads operate in conjunction with the Stattox 503 control module which provides the power supply and processes the signal. It features three powerful relays and a 4 – 20 mA analog output.

The combination sensor head / control module constitutes a complete gas detection system for combustible gases.

In combination with the Stattox 503 control module the Stattox 501 sensor heads comply with the standards DIN EN 61508 functional safety, level SIL 2.

Technical Data	
Detectable gases	combustible gases
Measuring range	0 – 100 % LEL
Measuring method	catalytic sensors
Detectable limit	1 % LEL
Response time	$t_{20} < 5$ s
Operation temperature	- 20 to + 45°C / -4°F to 113°F
Humidity	0 – 95 % r. H.
Pressure	700 – 1300 hPa / 10,1 – 18,9 psi
Power supply	3,0 VDC ARE; 5,0 VDC HRC
Power consumption	max. 1 W
Connection	3 –or 5 – Wire
Weight	0,58 kg / 20,5 oz
Dimensions	110x130x60 mm / 4,3x5,1x2,4“
Material	cast aluminium or GFK (sea water resistant)
Protection class	IP 54 (Alu), IP 66 (GFK)
Approval	Ex db eb IIC T6 Gb
Stattox 501 HRC Alu	article no. : 557 122
Stattox 501 HRC GFK	article no. : 557 128
Stattox 501 ARE Alu	article no. : 562 007
Stattox 501 ARE GFK	article no. : 562 011
Safety Integrity Level	DIN EN 61508 Level SIL 2



Stattox 501



Stattox 503 Control Modul

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