

## **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          | $t_{20} < 5 \text{ s}$                      |
| 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<br>Level SIL 2                 |



Stattox 501



Stattox 503 Control Modul

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