

Compur Statox 501 MC IR

Infrared detection of combustible gases



Compur Statox 501 MC IR - Infrared Detection of Hydrocarbons

The Statox 501 MC IR (Multi – Component - Infrared) sensor head consists of an increased safety (EEx e) terminal box and a sensor with integrated electronics. The sensor uses the infrared absorption detection method. The required supply voltage is the same as for a catalytic sensor. Its output is also identical to the signal of a catalytic sensor - therefore it can be directly connected to the Statox 502 Control Module or any other control unit for catalytic sensors.

The important technical advantages of an infrared gas detector are now available for almost the same low price as a catalytic gas detector. The big advantage: As this product has the same energy requirements and signal output as common gas detection systems, the Statox 501 MC IR can be used to upgrade existing systems wherever the catalytic sensor did not do the job.

The Statox 501 MC IR is a reasonable alternative to catalytic sensors wherever gas detection equipment is used to monitor hydrocarbons. It can be calibrated to difficult to handle gases by a reference gas using a reference factor.

Technical data

Detectable gases	n-Propane, Ethane, n-Butane, n- and c- Pentane, Ethylene, Propene, Ethanol, Methanol, Toluene, Xylene, Isopropanol, Acetone, Butanone
Measuring range	0 – 100 % L.E.L.
Measuring principle	IR- absorption, NDIR 2-channel
Detection limit	2 % L.E.L.
Response time	$t_{90} < 30$ s
Operating temperature	- 20 to + 60°C
Humidity	0 – 95 % r. H.
Pressure	700 – 1300 hPa
Power supply	3 - 5,0 V DC
Current max.	80 mA
Connection	3 –wire
Operation	with Statox 502 Control Module or any other compatible supply
Weight	0,58 kg
Dimensions	110 x 130 x 60 mm HxWxD (4,3 x 5,1 x 2,4 in.)
Material	Standard: Coated die cast aluminum Salt water proof version: Polyester
Protection class	Standard: IP 54, Polyester: IP 66
Ex approval	Ex db eb IIC T6 Gb



Statox 502 Control Module

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