

Compur Statox 501 LCIR CO₂ **Infrared Detection of Carbon Dioxide**



Compur Statox 501 LCIR CO₂- Infrared Detection of Carbon Dioxide

The Statox 501 LCIR CO₂ sensor head consists of an increased safety (EEx e) terminal box and a sensor with integrated electronics. The sensor operates with IR absorption principle. The supply voltage required is the same as for a catalytic sensor. Its signal output is also identical to a catalytic sensor, therefore it can be directly connected to a 501 Controller.

Applications

CO₂ fertilization
 Fermentation process
 Quick freezing
 Milling
 Storage / silo inertization
 Transportation
 Packaging
 Extraction
 Pest control
 CO₂ Cleaning
 Fire extinguishing

Technical data

Detectable gas	Carbon dioxide
Measuring range (MR)	0 –10 or 0 – 100 Vol.%
Measuring principle	IR- absorption, NDIR 2-channel
Detection limit (Vol.%)	0,2 (MR 10 Vol.%), 2 (MR 100 Vol.%)
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 consumption	app. 80 mA
Connection	3 –wire
Operation	with Statox 501 Controller or comparable supply
Weight	0,58 kg
Dimensions	110 x 130 x 60 mm HxWxD (4,3 x 5,1 x 2,4 in.)
Material	Die cast aluminum, coated
Protection class	IP 54
Ex approval	EEx de IIC T4



Statox 501 Controller

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