

CO/O₂ Flue Gas 225°C Sensor



CO detection at viable pricing

Maximized efficiency

Minimized emissions

for woody bio fuelled district heating plants

INTRODUCTION

The SenSiC CO/O₂ flue gas sensor detects the relation between the CO (carbon monoxide) and O₂ (oxygen) contents in the flue gas and thereby offers better combustion efficiency and emission levels than the lambda sensor. Until now CO sensors have been unaffordable for household heaters/boilers.

The sensor allows you to minimize the airflow (O₂) and still avoid excess CO emissions. Thus the heat loss in the outgoing flue gas will be minimized and the CO level kept within the allowed limits.

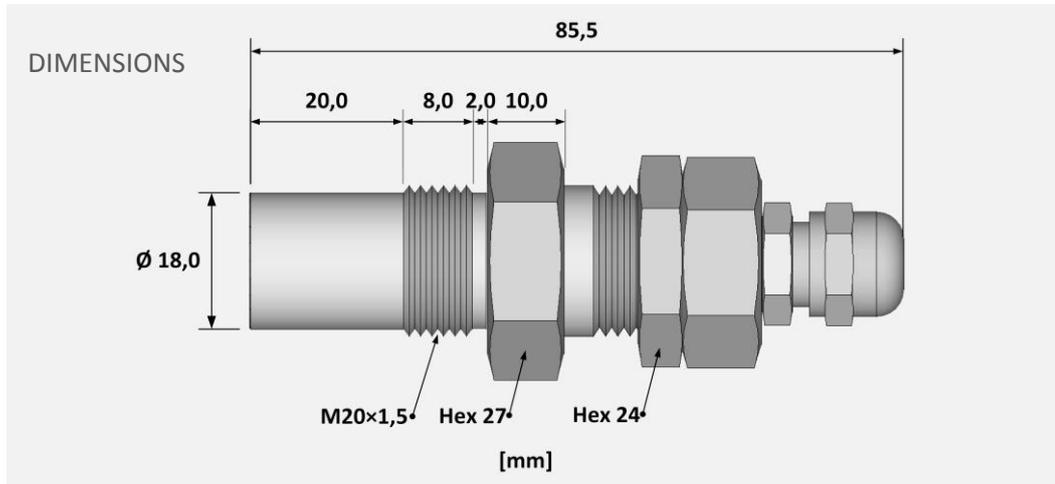
Less air flow means higher combustion temperature and thus more efficient combustion, less unwanted emissions and less soot generation i.e. less maintenance.

The above advantages are specifically important when using varying fuel quality and moisture contents. The features also allow lower power settings than otherwise.

DELIVERABLES

<u>Description</u>	<u>Name</u>	<u>Article no.</u>	<u>Note</u>
Sensor Unit (+high temp cable & connector)	COO2-T225	102-01	Flue gas 2250C
Control Unit	CU-2K	201-01	
CU Software	CU-SW	301-01	Upgradable





Sensor Unit	
- Flue gas temperature	225 °C max
- Rear part temperature	50 °C max (surrounding air)
CU (Control Unit)	
- Power supply	20-36 VDC
- CO/O2 detection level	Settable min/max levels
- Approximate tuning levels	CO: 50 – 1000 ppm for O2: 3-9% selectable switch points
- Automatic calibration	Yes. Initiated by boiler system @ no fire ("fresh air")
- Alarm / Status log	Short & long term logs for maintenance
- External connectors	
- Sensor	Female, IP67, 8 pin (shielded)
- Power supply	IP67 @ CU, cable w/o end connector provided
- System cable	IP67 @ CU , cable w/o end connector provided (shielded)
- Laptop connection	USB (IP67 NC) for supervision/control/logs/upgrading
- Reliability	Solid state components only. I/O protection against transients and faulty connections Battery backup real time clock for maintenance logs.