

NH3 Flue/Exhaust Gas 300°C Sensor

NH3 detection at viable pricing

Maximized NOx conversion efficiency

Minimized NH3 slip

for district heating CHP plants & diesel SCR/SNCR

INTRODUCTION

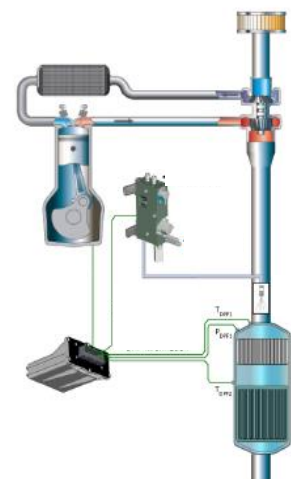
The SenSiC NH3 sensor detects exhaust/flue gas ammonia levels down to 5ppm. The sensor thereby offers cost efficient, fast responding NH3 slip monitoring to optimize ammonia (urea) injection in SCR/SNCR systems. Thus efficient NOx reduction is achieved whilst avoiding excess ammonia slip, which otherwise would cause a shortened life of the catalyst as well as increased corrosion.

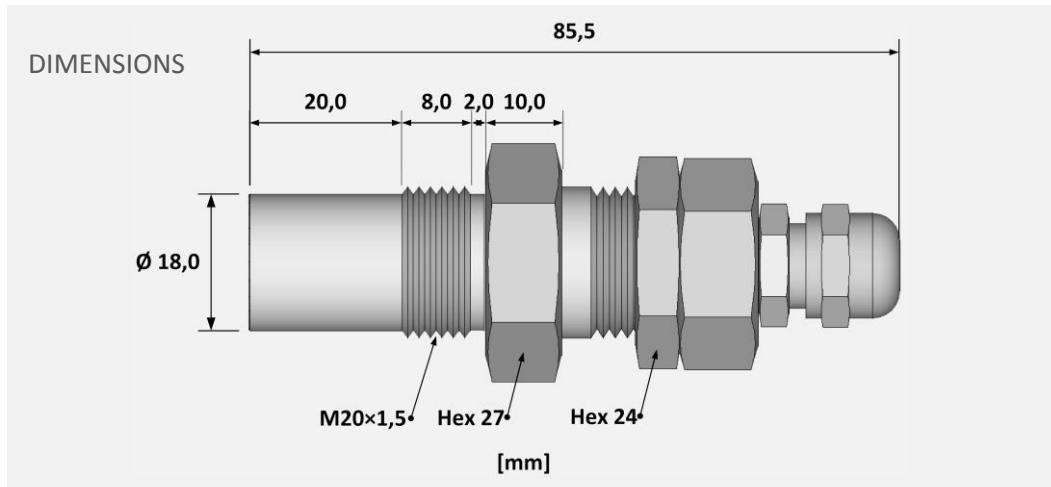
Applications are among others heater, boiler and CHP plants as well as diesel engine exhaust after-treatment systems.

The advantages of fast responding real time measurements are specifically important when using varying fuel qualities and power settings whereby a dynamic control of the ammonia (urea) injection is of utmost importance.

DELIVERABLES

<u>Description</u>	<u>Name</u>	<u>Article no.</u>	<u>Note</u>
Sensor Unit (+ high temp cable & connector)	NH3-T300	111-01	Flue gas 300°C
Control Unit	CU-2K	201-01	
CU Software	CU-SW	301-01	Upgradable





Sensor Unit	
- Flue gas temperature	300 °C max
- Rear part temperature	50 °C max (surrounding air)
CU (Control Unit)	
- Power supply	20-36 VDC
- Dynamic range	5 – 250 ppm
- Alarm levels	Tunable in the range 10 – 100 ppm
- Automatic calibration	Yes. Initiated by combustion system @ OFF (“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.