

NCG SENSOR

Evidence-based steam
sterilization monitoring



- + **Automatic data processing**
- + **Independent measurements of every process**
- + **Measurable and reproducible processes**
- + **Reduction of production time and increased sustainability**

The innovative NCG sensor is the only sensor that can measure the Non Condenseable Gases (NCGs), quantified and in every steam sterilization process. With the measured percentage of NCGs and chamber temperature the sterilization conditions, as specified in EN285:2015, can be verified.

With this evidence the sterilized load can be released for use; parametric release based upon directly measured sterilization parameters!

NCG SENSOR

Evidence-based steam sterilization monitoring

+ Automatic data processing

The NCG sensor operates and measures independently from the sterilizer and is connected to a validation port of the sterilizer. Every process is registered and stored in a digital file.

+ Independent measurements of every process

Monitors in every steam sterilization process the physical steam composition (EN285 clause 13.3.1, 13.3.2, 13.3.3) in the location that really matters: in the sterilization chamber, instead of the steam feed to the chamber with a frequency of, for example, once a year during maintenance or validation.

+ Measurable and reproduceable processes

Easy to read and understand Every Load Monitoring (ELM) protocols. ELM protocols in printouts and digital files are possible.

+ Reduction of production time and increased sustainability

Makes the daily steam penetration test (EN285:2015 clause 8.1) and routine vacuum test obsolete (EN285:2015 clause 8.2.3). This results in a reduction of energy consumption, use of staff resources and prolongs the lifespan of the sterilizer.

Only with Steelco the steam sterilization process is fully under control!

TEST CURRENT PRACTICE	STEAM QUALITY	STEAM PENETRATION	STEAM PENETRATION «WORST CASE» HOLLOW INSTRUMENTS
according to EN 285	frequently*	daily	requested but no technical solutions available until now
Measuring interval	sporadic	1 at day start	not existing
Cycle type	external	empty chamber	not existing

*Depending on local regulations. Often done only once in the sterilizer lifetime during installation and commissioning or on a yearly basis.

TEST WITH STEELCO SENSORS	NCG SENSOR	NCG SENSOR 4D [®] SENSOR	4D [®] SENSOR
with Steelco SENSORS	each cycle	each cycle	each cycle
Measuring interval	continuous	continuous	continuous
Cycle type	all test cycles and production cycles with load	all test cycles and production cycles with load	all test cycle and production cycles with load