

# **Documentation System**

For steam, ethylene oxide, formaldehyde and hydrogen peroxide sterilization processes



### **Application**

The GKE Steri-Record® documentation system is used for patient-related traceability of all medical sterilization processes. The documentation sheet contains all necessary information to release a sterilization batch. For one sterilizer and day, one documentation sheet is used (see page 3). Using a GKE labelling device the documentation sheet and each sterile packing can be labelled with a self-adhesive label that contains the following information: production and expiry date, responsible person, content of the pack, sterilizer and batch number (see figure "recommended label content" next page). All packs in the batch and the documentation sheets have the same label content and batch number.

After opening the sterile pack in the operation room the label can be peeled off and adhered to the patient and/or operation-related documentation. The content of the label allows patient related tracing back to the batch-related documentation in the sterilization department. In case of a nosocomial infection the sterilization data is available to exclude that the infection was caused by non-sterile instruments.

Labels without and with indicator for steam sterilization processes are available in four colours: red, green, blue and yellow. Different colours allow staff to differentiate sterile goods from different production periods, enabling a correct First In/ First Out (FIFO) storage handling system.

### **Product Description**

The GKE documentation system consists of the following components:

- Hand-labeller containing three printing lines with 12 digits each, available in the following two versions:
  - The first three digits of the first line can print alphanumeric digits, the remaining ones print numbers (art-no. 240-820).
  - The first line can print alphanumeric digits (art-no. 240-830).

The remaining two printing lines allow production and expiry date documentation.

- Selection of self-adhesive and double selfadhesive labels with or without type 1 process indicators according to EN ISO 11140-1 for steam, ethylene oxide, formaldehyde and hydrogen peroxide/plasma sterilization processes.
- 3. Documentation sheet to adhere indicator strips from PCDs and the labels

### **Sterilization processes**

The labels have two horizontal coloured bars. For labels with process indicator the bar above contains indicator substrate, which changes colour during sterilization.

Sterilization process	Indicator colour (without penetration)	Indicator colour (with penetration)
Steam		
Ethylene oxide		
Formaldehyde		
Hydrogen peroxide/plasma		

#### **Background Information**

The European Medical Device Directive (MDD) requires for reprocessing of medical devices to use appropriate validated procedures and to document the results of the validation process and routine monitoring. The quality management standard for medical devices (EN ISO 13485) and the validation standards of all sterilization processes (e.g. EN ISO 14937, EN ISO 17665-1 etc.) require monitoring and documentation of all relevant sterilization process parameters. This documentation is required for the production or reprocessing of all medical devices independent of where they are sterilized. For each individual load a batch number is required associated with all relevant parameters used in the sterilization process.

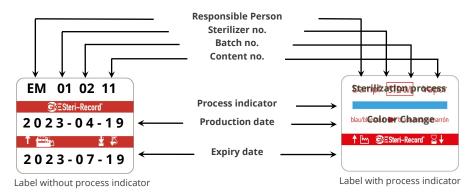
It is required, that all sterile packs have to be labelled with a type 1 process indicator according to EN ISO 11140-1 to ensure that the packs have passed the sterilization process and can be differentiated from non-sterilized packs.

GKE Steri-Record® documentation labels with process indicators are available for different sterilization processes (see above colour chart) and make the use of an additional process indicator (e.g. autoclave tape) obsolete.

If a sterilizer with two doors is used and one door opens in the storage room, labels without process indicators can be used under the condition that the door opens only after the sterilizer program has checked the correct process conditions.

#### **Benefits**

- Easy print of identical labels with minimum time and effort.
- Eliminates mistakes in batch numbers.
- Easy trace back system without additional effort
- The self-adhesive label offers patientrelated documentation without additional paperwork.
- Innovative product design and manufacturing process provides a cost-effective indicator.
- Easy interpretation of the results due to precise colour change.
- No need for additional process indicators using for labels with indicator.
- The expiry date can be marked using different background label colours.
- Less time wasted in the CSSD- and/or OR-department.
- The label contains a specified type 1 chemical indicator according to EN ISO 11140-1.
- Environmentally friendly, all GKE chemical indicators are protected from bleeding by a polymer binder and surface coating and can be disposed with normal garbage.
- The indicator colour chemistry is a nonreversible chemical reaction. The indicator strip can be a documented proof for several years without changing back to its original colour.



Recommended label documentation

# **Documentation Sheet**



## for the monitoring of sterilization processes

Sterilizer No.: 01  Date: 2023	Sterilization department: University Hospital CSSD											
Sterilization process: X Steam												
Bowie-Dick-Simulati	ion Test	(BDS)		□ no	ot appli	cable (no	BDS-Te	est requ	uired)			
BDS-Test ir	ndicato	r strip		Tes	Test O.K.? Responsible User							
GKE				💢 ye	s	no .	John Example					
<b>Process   Batch Mor</b> Adhere GKE documentatio	_			nually.								
User-, sterilizer- and batch number		1234 5 ∈Steri-Record	1		1235 5 ESteri-Record			236 5 Steri-Record	6 3			4
Production Date	20	23-03-	03	202	23-03-	03	202	3-03-( <u>2</u>	03			
Expiry Date	20	23-06-	03	2023-06-03		2023-06-03						
Adhere indicator strip	GKF			GKE			GKE					
Program	U	nivers <i>o</i>	l	Universal		Universal						
Temperature Sterilization Time	134 °C 8:05h		134 °C 9:15 h		134 °C 10:45h			°C h				
Test O.K.?	¥ yes □ no		□ yes 💢 no		🔀 yes 🗆 no			□ yes □ no				
Signature	J. Example J. Example		ple	J. Example								
User-, sterilizer- and batch number			5			6			7			8
Production Date												
Expiry Date												
Adhere indicator strip												
Program												
Temperature Sterilization Time		°C	h		°C	h		°C	h		°C	h
Test O.K.?	□ yes □ no		u yes u no			□ yes □ no			□ yes □ no			
Signature												

<sup>\*</sup> Package monitoring indicators are filed in the patient documentation.

### **Order information**

The labelling device is available in two different versions:

ArtNo	Product Code	1st printing line	2nd + 3rd printing line		
240-820	D-G-NL	3 alphanumeric digits and 9 numeric digits	12 numeric digits		
240-830	D-G-AL	12 alphanumeric digits	12 Humene digits		

### Self-adhesive 3-line labels without or with process indicator

ArtNo	Product Code	Colour	Sterilization process
230-864	D-L-SA-Y	Yellow	Without indicator for all processes except hydrogen peroxide
230-872	C-S-L-1-SA-B	Blue	Steam

**Double self-adhesive 3-line labels without or with process indicator** Each package contains rolls of 750 double self-adhesive labels with one ink roll.

ArtNo.	Product Code	No. of rolls/pack	Colour	Sterilization process		
240-853	D-L-DA-R	4	Red			
240-861 240-862 240-863 240-864	D-L-DA-G D-L-DA-B D-L-DA-R D-L-DA-Y	12	Green Blue Red Yellow	Without indicator for all processes except hydrogen peroxide		
240-871 240-872 240-873 240-874	C-S-L-1-DA-G C-S-L-1-DA-B C-S-L-1-DA-R C-S-L-1-DA-Y	12	Green Blue Red Yellow	Steam		
240-883	C-S-L-1-DA-R	4	Red			
242-875	<b>C-E-L-1-DA-P</b> 12		Purple	Ethylono ovido		
242-885	C-E-L-1-DA-F	2	Fulpie	Ethylene oxide		
243-874	C-F-L-1-DA-Y	12	Yellow	Formaldehyde		
243-884	C-F-L-1-DA-1	2	TEIIOW			
244-873	C-V-L-1-DA-R	12	Red	Hydrogen peroxide/plasma		
244-883	C-V-L-1-DA-K	2	Neu			