

Spirolog Flow Sensor

de Flowsensor
en/enUS Flow Sensor
fr Capteur de débit
es Sensor de flujo
it Sensore di flusso
ptBR Sensor de fluxo
nl Flowsensor
da Flowsensor
no Flowsensor
sv Flödessensor
fi Virtausanturi
It Srauto matuoklis

Gebrauchsanweisung
Instructions for Use
Notice d'utilisation
Instrucciones de uso
Istruzioni per l'uso
Instruções de Uso
Gebruiksaanwijzing
Brugervejledning
Bruksanvisning
Bruksanvisning
Käyttöohjeet
Naudojimo instrukcija

WARNING
To properly use this medical device, read and comply with these Instructions for Use.

CE 0123
Directive 93/42/EEC
concerning Medical Device

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en/enUS Instructions for Use
Spirolog
Flow Sensor

- Trademarks**
- Spirolog® is a trademark of Dräger
 - Sekusept® is a trademark of Ecolab Deutschland GmbH
 - Korsolex® is a trademark of Bode Chemie
 - Gigasept® is a trademark of Schülke & Mayr
 - Cidex® is a trademark of Johnson & Johnson Medical GmbH

Definitions

WARNING
A **WARNING** statement provides important information about a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION
A **CAUTION** statement provides important information about a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or in damage to the medical device or other property.

NOTE
A **NOTE** provides additional information intended to avoid inconvenience during operation.

For Your Safety and that of Your Patients

WARNING
For a full understanding of the performance characteristics of this medical device, the user should carefully read these Instructions for Use before use of the medical device. The medical device is only to be used for the purpose specified. Strictly follow the Instructions for Use of the Dräger basic device that can be used in combination with this accessory.

In these Instructions for Use, the Spirolog Flow Sensor is also referred to as flow sensor.

Intended Use
The flow sensor is a hot-wire sensor for measuring volumetric gas flow (flow) delivered by Dräger anesthesia machines and ventilators. The flow sensor is not suitable for sterilization.

Operation

WARNING
Patient hazard due to ignition in the flow sensor.
The flow sensor can ignite medications or other substances based on highly flammable substances.
Do not use highly flammable substances in conjunction with the flow sensor.

Check flow sensor for visible damage on a regular basis.
Strictly follow the Instructions for Use of the Dräger basic device to which this medical device is connected.

Reprocessing

WARNING
Patient hazard due to failure of flow measurement.
Deposits, which have not been removed during reprocessing, can damage the measuring wires in the flow sensor.
Carry out a regular visual inspection for dried residues of mucus, medication aerosols, and lint.
Replace flow sensor when it is damaged or when the reprocessing did not remove all deposits.

CAUTION
Risk of damage to the flow sensor.
Improper reprocessing can damage the flow sensor.
Do not clean the flow sensor in an ultrasonic bath, a washer-disinfector, with compressed air, water jets, brushes or the like.

WARNING
Patient hazard due to ignition in the flow sensor.
During sensor calibration remaining vapors of highly flammable substances (e. g., alcohols) can ignite. This can destroy the flow sensor and harm the patient or the user.
After reprocessing, allow the flow sensor to air for at least 30 minutes.

Complete reprocessing comprises cleaning and disinfection of the flow sensor.

The material compatibility of Dräger accessories to be reprocessed has been tested with various cleaning agents and disinfectants. The following cleaning agents and disinfectants showed good material compatibility at the time of the test.

Cleaning agent	Manufacturer
Sekusept Powder Classic	Ecolab Deutschland GmbH, Düsseldorf, Germany

- 1 Prepare a 4 % Sekusept Powder Classic solution in a container with cover.
- 2 Immerse flow sensor bubble-free for 15 minutes. Swirl vigorously at least 3 times during the contact time.
- 3 Repeat application.

Disinfectants	Manufacturer
Korsolex Basic, Korsolex Extra	Bode Chemie, Hamburg, Germany
Gigasept FF	Schülke & Mayr, Norderstedt, Germany
Cidex OPA	Johnson & Johnson Medical GmbH, Norderstedt, Germany

- The composition of the disinfectant is the responsibility of the manufacturer and can change over time.
Strictly follow the manufacturer's instructions on the disinfectant.
- 1 Disinfect the flow sensor by immersion.
 - 2 Sufficiently rinse the flow sensor under water (preferably drinking-water quality) until no disinfectant residues can be recognized.
 - 3 Inspect flow sensor for visible soiling and damage (measuring wires and corresponding pins). Repeat manual disinfection if necessary.
 - 4 Remove remaining water and allow the flow sensor to air for at least 30 minutes.

Sterilizing

CAUTION
Patient hazard due to failure of flow measurement.
Sterilization can damage the flow sensor.
The flow sensor must not be sterilized.

Disposal

- The flow sensor must be disposed of as infectious waste.

Low-emission combustion is possible at over 800 °C (1472 °F).

Technical Data	
Material	Acrylonitrile-butadiene-styrene (ABS) with 13 µm platinum wire
Ambient conditions	
Operation	Strictly follow the Instructions for Use of the Dräger device that can be used in combination with this medical device.
Storage	
Temperature	–40 to 75 °C (–40 to 167 °F)
Atmospheric pressure	115 to 1100 hPa (1.67 to 15.96 psi)
Relative humidity	5 to 95 % (no condensation)
Measuring principle	Hot wire anemometry
Service life	The flow sensor is subject to wear and can be used as long as successful calibration is possible.

Classification Class IIa
In accordance with Directive 93/42/EEC Annex IX
UMDNS code 14-117
Universal Medical Device Nomenclature System – Nomenclature for medical devices
For USA: Rx only
Caution: Federal law restricts this device to sale by or on the order of a physician

Designation	Order number
Spirolog Flow Sensor (5 pcs.)	8403735