

SyncPlus®

SyncPlus®
synchronizes ventilation to enhance patient comfort



How you benefit:

- To provide patient comfort despite leakage or changing ventilation patterns
- Designed to lower work of breathing
- Helps to minimize need for caregiver intervention

AUTOMATICALLY COMPENSATES FOR LEAKAGE

SyncPlus® is a built-in function of Carina®, incorporating an automatic leakage compensation. This prompt responsiveness makes it possible to accurately measure and control the delivered volume, even with a single hose patient system.

In practice this means that what is displayed on the screen is what the patient gets, despite changes due to mask leakages. As a result, SyncPlus® is an invaluable tool for mask ventilation applications.

CYCLE LEARNING TECHNOLOGY

With SyncPlus®, trigger sensitivity is constantly adapted to the actual respiratory cycle of the patient. While avoiding

false triggers, this cycle learning ability provides its maximum sensitivity level exactly when a trigger is expected. All this is done dynamically based on spontaneous breathing, allowing patients comfortable synchronization under all circumstances, unaffected by changes over time. Ultimately this improves patient tolerance of mask ventilation and therefore improves the likelihood of successful NIV treatment, while freeing up care-givers to concentrate on other tasks.

MULTI-SENSE TRIGGER DESIGNED TO LOWER WORK OF BREATHING

A missed trigger is one of the most common hindrances in maintaining comfortable ventilation therapy. To reduce missed triggers, SyncPlus® combines a multitude of detection criteria. It incorporates flow, pressure and flow gradient into a balanced trigger detection algorithm. This sophisticated combination of criteria allows SyncPlus® to quickly and conveniently adapt to the needs of patients by detecting faint, but real spontaneous breathing efforts.

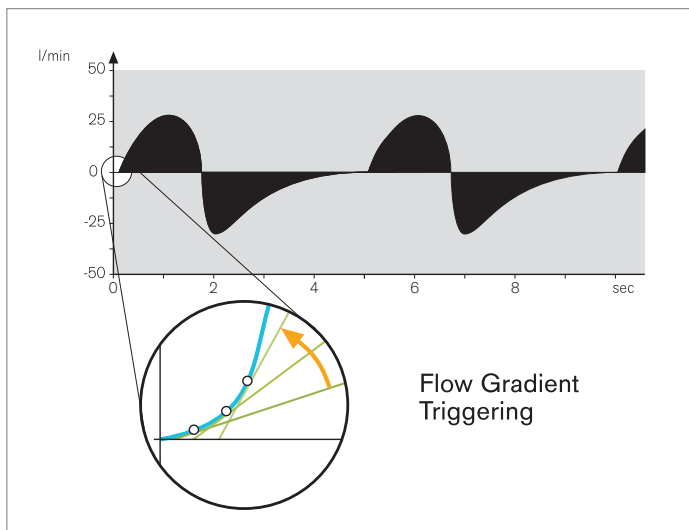


Carina's SyncPlus® function features automatic leakage compensation and automatic termination criteria.

SIMPLIFYING HIGHLY RESPONSIVE VENTILATION

SyncPlus® is a convenient, automated technology designed to precisely synchronize ventilation with patient breathing patterns. Through leakage compensation, cycle learning technology and multi-sense trigger detection, SyncPlus® helps to enhance therapy responsiveness, while the need for caregiver intervention is minimized.

New SyncPlus® supports the enhancement of the environment for successful patient care, and it offers ease of use to caregivers.



TECHNICAL DATA

Trigger setting	Normal, Sensitive, OFF
Multi-sense Trigger criteria	Flow gradient, Flow rate, Pressure
Leakage compensation	Max. 50L/min (Leak alarm criteria)
Cycle Learning	Define in- & expiratory time based on previous 3-4 breaths
SyncPlus® available modes	Available in all ventilation modes except CPAP

* SyncPlus® is a standard function for Carina®
 * SyncPlus® is applicable for both mask- and invasive ventilation

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 The quality management system at Dräger Medical AG & Co. KG is certified according to ISO 13485, ISO 9001 and Annex II.3 of Directive 93/42/EEC (Medical devices).