



## VOCSN Ventilation Modes

The VOCSN critical care ventilator provides a comprehensive set of ventilation modes to meet patient needs during invasive, non-invasive, and mouthpiece ventilation. VOCSN uses a standard nomenclature to describe its modes: Assist/Control (Volume or Pressure), SIMV (Volume or Pressure), Vol. Targeted (PS, PC, or SIMV), Bi-Level, and Spontaneous. The reference list below illustrates how to set your preferred ventilation mode using equivalent VOCSN modes and settings. (NOTE: This document applies to software version 4.06R and later.)

### Non-Invasive Ventilation Modes

Ventilation Mode or Feature	Equivalent VOCSN Mode Settings	Additional VOCSN Controls
S/T (Spontaneous/Timed)	<ul style="list-style-type: none"> <li>Set Mode to Bi-Level</li> <li>Set Breath Rate</li> <li>Set Flow Trigger</li> </ul>	<ul style="list-style-type: none"> <li>Inspiratory Time, EPAP, IPAP (measured from a baseline of 0 cmH<sub>2</sub>O), Flow Cycle, Time Cycle, and Rise Time</li> </ul>
AVAPS™, PRVS (Average Volume Assured Pressure Support), (Pressure Regulated Volume Support)	<ul style="list-style-type: none"> <li>Set Mode to Vol. Targeted-PS</li> <li>Set Breath Rate</li> <li>Set Pres. Minimum and Pres. Adj. Rate</li> <li>Set Flow Trigger</li> <li>Set High Pressure Alarm 5 cmH<sub>2</sub>O above desired maximum pressure</li> </ul>	<ul style="list-style-type: none"> <li>Inspiratory Time, PEEP, Tidal Volume, Pressure Control Flow Termination, Flow Cycle, Time Cycle, and Rise Time</li> </ul>
T (Timed)	<ul style="list-style-type: none"> <li>Set Mode to AC-Pressure</li> <li>Set Breath Rate</li> <li>Set Flow Trigger to Off</li> <li>Set Pressure Control Flow Termination to Off</li> </ul>	<ul style="list-style-type: none"> <li>Inspiratory Time, PEEP, Pressure Control (measured above the set PEEP), and Rise Time</li> </ul>
Pressure Support or S (Spontaneous)	<ul style="list-style-type: none"> <li>Set Mode to SIMV-Pressure or SIMV-Volume</li> <li>Set Breath Rate to 0</li> <li>Set Pressure Support</li> </ul>	<ul style="list-style-type: none"> <li>Inspiratory Time (Apnea backup), Pressure Control (Apnea backup if SIMV-Pressure), Tidal Volume (Apnea backup if SIMV-Volume), PEEP, Flow Cycle, Time Cycle, Rise Time, Apnea Rate</li> </ul>
CPAP (Continuous Positive Airway Pressure)	<ul style="list-style-type: none"> <li>Set Mode to SIMV-Pressure or SIMV-Volume</li> <li>Set Breath Rate to 0</li> <li>Set PEEP to desired CPAP level</li> <li>Set Pressure Support to 0</li> </ul>	<ul style="list-style-type: none"> <li>Inspiratory Time (Apnea backup), Pressure Control (Apnea backup if SIMV-Pressure), Tidal Volume (Apnea backup if SIMV-Volume), Flow Cycle, Time Cycle, Rise Time, and Apnea Rate</li> </ul>

## Volume Ventilation Modes

Ventilation Mode or Feature	Equivalent VOCSN Mode Settings	Additional VOCSN Controls
AC-Volume (Assist/Control) or VC (Volume Control)	<ul style="list-style-type: none"> <li>○ Set Mode to AC-Volume</li> <li>○ Set Breath Rate</li> <li>○ Set Flow Trigger to On</li> </ul>	<ul style="list-style-type: none"> <li>○ Inspiratory time, Tidal Volume, PEEP, and Sigh</li> </ul>
SIMV-Volume or SIMV (Synchronized Intermittent Mandatory Ventilation) or +/- Pressure Support	<ul style="list-style-type: none"> <li>○ Set Mode to SIMV-Volume</li> <li>○ Set Breath Rate</li> <li>○ Set Flow Trigger</li> <li>○ Set Pressure Support (measured above the set PEEP)</li> </ul>	<ul style="list-style-type: none"> <li>○ Inspiratory Time, Tidal Volume (for mandatory breaths), PEEP, Flow Cycle, Time Cycle, Rise Time, Apnea Rate, and Sigh</li> </ul>
CV-Volume (Control Ventilation)	<ul style="list-style-type: none"> <li>○ Set Mode to AC-Volume</li> <li>○ Set Breath Rate</li> <li>○ Set Flow Trigger to Off</li> </ul>	<ul style="list-style-type: none"> <li>○ Inspiratory time, Tidal Volume, PEEP, Sigh</li> </ul>

## Pressure Ventilation Modes (Including Volume-Targeted Ventilation)

Ventilation Mode or Feature	Equivalent VOCSN Mode Settings	Additional VOCSN Controls
AC-Pressure (Assist/Control) or PC (Pressure Control)	<ul style="list-style-type: none"> <li>○ Set Mode to AC-Pressure</li> <li>○ Set Breath Rate</li> <li>○ Set Flow Trigger</li> </ul>	<ul style="list-style-type: none"> <li>○ Inspiratory Time, PEEP, Pressure Control (measured above the set PEEP), Pressure Control Flow Termination, Flow Cycle, and Rise Time</li> </ul>
PRVC (Pressure Regulated Volume Control)	<ul style="list-style-type: none"> <li>○ Set Mode to Vol. Targeted-PC</li> <li>○ Set Breath Rate</li> <li>○ Set Pres. Minimum and Pres. Adj. Rate</li> <li>○ Set Flow Trigger</li> <li>○ Set High Pressure Alarm 5 cmH<sub>2</sub>O above desired maximum pressure</li> </ul>	<ul style="list-style-type: none"> <li>○ Pres. Minimum, Pres. Adj. Rate, Inspiratory Time, PEEP, Pressure Control Flow Termination, Flow Cycle, and Rise Time</li> </ul>
SIMV-Pressure or PC-SIMV (Synchronized Intermittent Mandatory Ventilation) or +/- Pressure Support	<ul style="list-style-type: none"> <li>○ Set Mode to SIMV-Pressure</li> <li>○ Set Breath Rate</li> <li>○ Set Flow Trigger</li> <li>○ Set Pressure Control</li> <li>○ Set Pressure Support (measured above the set PEEP)</li> </ul>	<ul style="list-style-type: none"> <li>○ Inspiratory Time, PEEP, Pressure Control Flow Termination, Flow Cycle, Time Cycle, and Rise Time</li> </ul>
SIMV + PRVC (Synchronized Intermittent Mandatory Ventilation) + (Pressure Regulated Volume Control)	<ul style="list-style-type: none"> <li>○ Set Mode to Vol. Targeted-SIMV</li> <li>○ Set Breath Rate</li> <li>○ Set Pres. Minimum and Pres. Adj. Rate</li> <li>○ Set Flow Trigger</li> <li>○ Set High Pressure Alarm 5 cmH<sub>2</sub>O above desired maximum pressure</li> </ul>	<ul style="list-style-type: none"> <li>○ PEEP, Tidal Volume, Pressure Support (measured above the set PEEP), Inspiratory Time, Pressure Control Flow Termination, Flow Cycle, Time Cycle, and Rise Time</li> </ul>