

## ***Ventilation Set-up***

➔ To adjust the various control settings in either standby mode or after ventilation has been started:

☒ Select the control setting to be changed by tapping the relevant control button on the screen

☒ Adjust the numeric value of a setting by using the **Up/Down** buttons

☒ Accept the value by tapping the relevant control button again, or by pressing **Enter** . The new parameter value will be accepted if another control button is tapped or after 5 seconds with no activity

➔ To cancel a parameter adjustment press the **CANCEL** button within 5 seconds

***Control Parameters*** (always adjusted using the button)

➔ **PCV or VCV** – (in lower right hand corner of Parameters screen) used to select the type of ventilation. Pressure Controlled Ventilation or Volume Controlled Ventilation

➔ **ACMV, SIMV or SPONT** – Used to select the mode of ventilation. Assist Control Mandatory Ventilation, Synchronized Intermittent Mandatory Ventilation or Spontaneous ventilation

***VCV or PCV*** –

➔ **VCV (0.1 to 2.2 L)** - Sets the mandatory tidal volume for VCV.

➔ **PCV (5 to 60 cmH20)** - Sets the target pressure for PCV.

### ***Ti or Flow –***

- ➔ ***Ti (0.1 to 3 sec)*** - Sets the inspiratory period during mandatory breaths. This control button appears only if Ti is selected in the Ti/FLOW control button on the Extended screen.
  
- ➔ ***Flow (6 to 100L/min)*** - Sets the mandatory flow (volume control). This control button appears only if FLOW is selected in the Ti/FLOW control button on the Extended screen.
  
- ➔ ***○ (Frequency/breath rate) (1 to 99 b/min)*** - Sets breath's frequency. In ACMV mode,  $\square$  determines the number of time-triggered breaths; in SIMV mode  $\square$  determines the total number of mandatory breaths.
  
- ➔ ***PSV above peep (0 to 60 cmH<sub>2</sub>O)*** - Sets the added pressure support for spontaneous breaths in SIMV and SPONT modes. The value of PEEP + PSV cannot exceed 60 cmH<sub>2</sub>O.
  
- ➔ ***PEEP (0 to 30 cmH<sub>2</sub>O)*** - Sets the baseline pressure during the exhalation phase. In Pressure Control ventilation, PEEP is limited to no more than 5 cmH<sub>2</sub>O below the Pressure Control setting.
  
- ➔ ***Ptrig (-9.9 to -0.1 cmH<sub>2</sub>O)*** - – Sets the sensitivity for a spontaneous breath trigger. The Ptrig LED indicator

illuminates each time the airway pressure reaches the set P<sub>trig</sub> level.

### ***Alarms Setting***

→ ***Low P, High P*** – Sets the low and high pressure alarm values (3 to 98 cmH<sub>2</sub>O and 4 to 99 cmH<sub>2</sub>O respectively).

→ ***Low MV, High MV*** – Sets the low and high minute ventilation alarm values (1.1 to 50 L/min and 0.1 to 50 L/min respectively).

### ***Starting Ventilation***

→ Turn on the ventilator by pressing the button (allow time for the Flight 60 to boot up). The Flight 60 will be placed in Standby mode

→ Set the ventilation, alarms and other parameters

→ Start ventilation by pressing and holding the button for 3 seconds

### ***Stopping Ventilation and Shutting***

#### ***Down***

Press the button twice, with the second pressing continuing for 3 seconds

***Monitored Values (presented in the Patient Monitoring Area)***

***P<sub>peak</sub>*** (0 to 99 cmH<sub>2</sub>O) - Peak inspiratory pressure

***P<sub>base</sub>*** (0 to 99 cmH<sub>2</sub>O) - Baseline airway pressure at the end of expiration

***P<sub>mean</sub>*** (0 to 99 cmH<sub>2</sub>O) - Mean airway pressure at the end of expiration

***V<sub>te</sub>*** (0 to 9.99 L) - Expiratory tidal volume

***V<sub>ti</sub>*** (0 to 9.99 L) - Inspiratory tidal volume

***MV<sub>e</sub>*** (0 to 9.99 L/min) - Expiratory minute volume

***MV<sub>i</sub>*** (0 to 9.99 L/min) - Inspiratory minute volume

***Actual<sup>?</sup>*** (0 to 99 b/min) - Total number of patient's or time activated breaths in one minute

***I:E Ratio*** (1:99 to 3:1) - Ratio of Inspiratory time to Expiratory time

***PIF*** (6 to 100 L/min) - Peak Inspiratory Flow

***FiO<sub>2</sub>*** (21% to 100% O<sub>2</sub>) - Percent of Inspired Oxygen measured in the gas delivered by the Flight 60

## ***Additional Functions***

***Alarm Reset*** - Pressed once; the Alarm Reset silences the audible alarm; pressed again, the Alarm Reset clears latched alarm LED's.

***Manual Breath*** - Allows a user initiated inflation; available in ACMV and SIMV modes. The **Manual Breath** button doesn't initiate inflation if the patient is currently in the inspiratory phase of a breath,

or if the airway pressure is greater than 5 cmH<sub>2</sub>O above the set PEEP level. During a Manual Breath, the breath is terminated if any of the following occurs:

- ☐ The **Manual Breath** button is released
- ☐ The High Pressure limit is reached
- ☐ 3 seconds have elapsed

### ***Panel Lock***

➔ To lock the panel, press the Panel Lock button twice within 5 seconds. The Panel Lock LED turns on. All buttons are disabled for adjustment, except for the Alarm Reset and Manual Breath buttons.

➔ To unlock the panel, press the Panel Lock button once and then press the Enter button. The Panel Lock is deactivated.

### ***Extended Screen Function***

- ☐ **Buzzer** – High or Low
- ☐ **Power Save** – On or Off
- ☐ **Waveform** – Square or Descending
- ☐ **Apnea Interval** – 10 to 60 seconds in 10 second increments
- ☐ **Ti/Flow** – sets either Ti (Inspiratory Time) or Flow as the control setting on the Parameters screen
- ☐ **Rise Profile** – 1 to 5 (start out at 3 is recommended)
- ☐ **PSV Flow Term** – – at what percent of maximum flow breath will be terminated, 10% to 70%

☐ **PSV Ti** - 0.1 – 3.0 seconds

☐ **FIO2 On/Off** – turns the FIO2 monitoring on or off  
NPPV For Non Invasive Pressure Support.

? **FIO2 Low** – FIO2 alarm set, off to **90%**

? **FIO2 High** – FIO2 alarm set, off to 31%

## ***Technical Screen Functions***

? **Press Units** – cmH2O or mBAR

? **Low P Spont** – on or off

? **Language** – English or other languages

? **Show Info** – displays the ventilator's serial number and hour meter

? **Circuit Test** – tests patient circuit

? **Set Load** – initiates 1 to 5 saved settings

? **Set Save** – Saves 1 to 5 parameters settings sets that can be loaded using Set Load

? **Set Clock** – sets date and time

? **Show Alarm Log** – alarms logged by date and time

? **Show Change Log** - changes logged by date and time

? **GoTo more** – additional functions for which access requires a password (i.e., enable remote monitor, etc.)

## ***Battery Use***

When not in use it is recommended that the Flight 60 always be plugged into an AC outlet to maintain a full charge on the internal batteries. When not in use and not plugged into an AC outlet the internal batteries will deplete over time (approximately 2 weeks). Refer to the Flight 60 Operator's Manual for more information on the Flight 60 batteries care and maintenance.