

## INITIAL TECHNICAL STAFF CALIBRATION & SET UP

This device is CE marked suitable for clinical use although not currently used in the NHS.

It is important that the device is appropriately configured, and that the device is calibrated for use with the associated infusion giving sets, in accordance with the manufacturer's instructions.



Supporting information can be found at: <https://portal.e-lfh.org.uk/Component/Details/613880>, including:

1. Manufacturer User Guide
2. Manufacturer training videos

**Technical support** for the device is available from the manufacturer using the following contact details:

Tel: 0086 755 26755692  
 Fax: 0086 755 26755687  
 info@sinomdt.com

# SINO MEDICAL: SN-1800V VOLUMETRIC PUMP

## QUICK START GUIDE



### CAUTION

- Calibration and essential performance assurance for each administration set intended for use is required. Administration sets verified to meet the requirements of this infusion device:

Manufacturer	Description	Product Ref.	Supply Chain Ref.
B Braun Medical Ltd.	Intrafix SafeSet	4063000*	FKA083
Codan Ltd.	None	433030	FSB1040

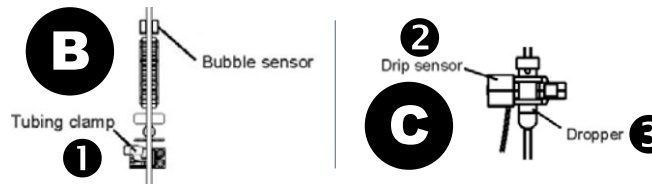
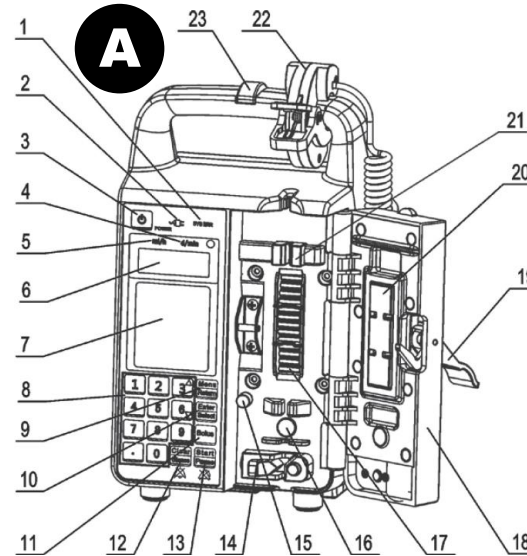
\*Please note: Additional verified administration sets can be found through the e-LfH support.

- Some common alarms are unavailable. Alarms for 'Near End' and 'No flow above pump (bag empty)' are unavailable for setup.
- **Drug library contents must be reviewed** by organisations and may not be suitable for use.
- Settings selected **do not** require double confirmation.
- Selected administration set is not displayed; device assumption same set will always be used.
- Receiving organisations must make provision for local training of users pre-deployment.

### CONNECT AND SET UP

#### 1 How do I Install Giving Set? (Image A)

- Make sure giving set is primed and free flow clamp is on
- Open door by lifting door lever **A19**
- Fit set into the groove on bubble sensor **A21** (as shown in Image **B**)
- Feed set into tubing clamp **A14** (as shown in Image **B - B1**)
- Close door
- Install drip sensor (**C2**), if used, between nozzle of dropper and liquid level



### SET THE CONTROLS

#### 2 How to Set Giving Rate (Image A):

- Long Press Power key **A3**
- Purge set of air by holding BOLUS key **A11**
- Press Menu key **A9** - Enter Speed mode (Rate mode). Use numeric keypad to set desired rate.
- Press Enter.
- Cursor will move to Preset, enter VTBI if needed. If left at 0ml all fluid will be infused.
- Press Start key **A13**

### OPERATE

#### 3 What do the Alarm Codes Mean?

- Non Operation (Time Out) - Pump has not been started after being switched on for 2 minutes
- Occlusion – Blocked giving set
- Bubble Alarm (Bubb) – Air detected in tube
- Door Open – Door opened when pump is running
- Infusion Finish - Upon the completion of the set volume of infusion.
- KVO Completion – KVO completed
- Drip Sensor Abnormality - Abnormality is detected by the system. Empty bottle
- Low Voltage Battery – Plug pump into mains supply

**Any system errors or alarms, remove pump from service.**

### FUNCTIONS

#### 4 Front of Device (Image A):

1. **System Error Alarm Indicator** - Used for alarm indication when system error occurred.
2. **AC Indicator** - This indicator lights up when connected to AC power.
3. **Power key** - Long press to turn on/off.
- 4/5. **Drip mode indicator / rate mode indicator** - Drip mode is different with other modes in digital display unit, displays the current infusion data unit.
6. **LED Display** - To show the rate data.
7. **LCD Display** - To show the related data, status, alarm information, etc.
8. **Numeric Keypad** - For inputting numerical information. Number 3 and number 6 for choosing upper or lower function.
9. **MENU Button/Return Button** - Select the menu program and return.
10. **Confirm Button/Select Button** - Select the program and enter it; Shift the parameters on the same interface to select the parameters.
11. **Purge Button** - Press the key and press it again for 5 seconds, to start the purge function. Release the key to stop it.
12. **Silence Button/Clear Button** - To be used for buzzer on-silence after alarm; Enter the parameters, Reset the infusion amount.
13. **Start Button/Pause Button** - To be used to start or pause the infusion.
14. **Tubing clamp** - Clamp the pipeline after the pump gate is opened to avoid excessive output of infusion.
15. **Jacklight** - To be used for night-time illumination.
16. **Occlusion Sensor** - Detect the pressure in infusion tube line.
17. **Pump Fingers** - Extrude the pipeline, enabling the liquid to be drained from the infusion components.
18. **Pump Door** - Fix the infusion tube line components to be mounted.
19. **Door Handle** - To be used for the opening and closing of pump gate.
20. **Pressure Plate** - Use constant pressure to hold down the pipeline of infusion components.
21. **Bubble Sensor** - Detect air bubble in infusion tube line.
22. **Drip Sensor** - Detect drip.
23. **Infusion State Indicator/Alarm Indicator** - Indicates infusion status or alarm status. The indicator light can show different statuses and colours.

#### 5 Back of Device (Image D):

1. **USB**
2. **Drip sensor**
3. **The fixation clamp** - used for fixing the infusion pump onto the infusion stand.
4. **Fixation handle** - Rotating and adjusting the fixation to lock or release
5. **Power supply interface** is used for the connection to AC power supply.
6. **DC 15V power output interface**
7. **RS232 interface**
8. **DC12V Power input interface** is used for the connection of 12v external DC power supply.
9. **Calling nurse interface**

