Avoset™

Programming Tool
Default Setting Guide

Avoset Programming Tool Rev. 2.1

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avoset™

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Caution: If you sign in at the account level, the changes you make in the Programming Tool can affect all locations and all pumps programmed from this point on. The Programming Tool provides a confirmation screen as a reminder: Changes will be applied to all locations. Changes that are done in the Account workspace will be applied to all locations. The Master Manager can click Apply to proceed or Cancel to cancel the changes.

Note: This advisory document does not replace the official Instructions for Use. Read the User Manual and any instructions accompanying disposables or accessories before operating the Avoset device.

Alarms

Modes	Setting Name	Factory Value	Values/Ranges	Account Settings	Description
All	Air in Line	2 mL	0.1, 0.2, 0.5, 2 mL		In this mechanism, when a single bubble, equal to or larger than a user-selected size, passes through the detector, an alarm is triggered.
	Accumulated Air Detection	Off	Off (0 mL), On (1 mL)		In this mechanism, any single bubble equal to or larger than 0.5 mL is included in the counter of accumulated air. When the total amount of accumulated air reaches 1 mL in a 15 minutes period, an alarm is triggered.
	Occlusion Sensitivity	Medium	Low (1.6 Bar / 23.2 PSI), Medium (1.2 Bar / 17.4 PSI), High (0.5 Bar / 7.25 PSI)		The minimum downstream pressure that triggers an occlusion alarm.
	Pump Unattended	10 minutes	2, 5, 10 minutes		The number of consecutive minutes of no interaction with the pump after which "Unattended Pump" is triggered.
	Time Offset (for using the pump in a different time zone)	0	–6, –5, –4, –3, –2, –1, 0, +1, +2, +3, +4, +5, +6		When the pump is programmed from the Programming Tool, the PC updates the pump clock. If the pump is to be used in a different time zone, the correct offset needs to be selected.
	(Intermittent only) Time To Change Bag Reminder	10 minutes	10, 20, 30 minutes		Sets the required time to prompt the " Time To Change Bag" reminder.

Prime

Modes	Setting Name	Factory Value	Values/Ranges	Account Settings	Description
All	Prime Reminder	Off	Off, On		Enables a reminder for the user to prime the administration set before starting an infusion.
	Prime Volume	9 mL	[2-20] mL		The amount of fluid used to prime the administration set when automatic priming is performed.

Audio

Modes	Setting Name	Factory Value	Values/Ranges	Account Settings	Description
All	Alarm Volume	High	Low, High		Sets the speaker volume for the auditory alarm signal
	Keys Volume	Low	Off, Low, High		Sets the speaker volume for the auditory signal generated when users select functions and press keys on the pump

Password Protection

Modes	Setting Name	Factory Value	Values/Ranges	Account Settings	Description
All	Passwords	298	Min: 100 Max: 999		
Continuous	Automatic Prime	Locked	Unlocked, Locked		
	Edit Infusion	Locked	Unlocked, Locked		
Intermittent	Automatic Prime	Locked	Unlocked, Locked		
	Edit Next Dose Start Time	Locked	Locked	Locked	
PCA	Automatic Prime	Locked	Locked	Locked	To help ensure patient safety, the Avoset pump can be set using a unique password. Each feature that should not be accessible to an unauthorized user, can be protected by a password.
	Clear PCA Bolus History	Unlocked	Unlocked, Locked		
	Edit Infusion	Locked	Locked	Locked	
	Clinical Bolus	Locked	Locked	Locked	
Taper	Automatic Prime	Locked	Unlocked, Locked		
	Edit Infusion	Unlocked	Unlocked, Locked		
	Immediate Taper Down	Unlocked	Unlocked, Locked		

*The clinician can choose whether to define each function as locked or unlocked based on customer needs.

Program-Specific Settings

Continuous

Modes	Setting Name	Factory Value	Values/Ranges	Account Settings	Description
Continuous	KVO Rate	0 mL/h	[0.1-10] mL/h		The rate at which you can keep vein open.
	Minimum Rate	0.1 mL/h	[0.1, Max rate] mL/h		Minimum amount of fluid delivered per hour.
	Maximum Rate	300 mL/h	[Min rate, 300] mL/h		Maximum amount of fluid delivered per hour.
	Minimum VTBI	0.1 mL	[0.1, Max VTBI] mL		Minimum volume to be infused.
	Maximum VTBI	9,999 mL	[Min VTBI, 9,999] mL		Maximum volume to be infused.
	Dosing Unit	On	Off, On		If programming is always done in mL, the "dosing units" can be hidden from the programming page to increase efficiency.

Program-Specific Settings

Intermittent

Modes	Setting Name	Factory Value	Values/Ranges	Account Settings	Description
Intermittent	Default Total Duration	Off	Min: 00h:11m Max: 999h:59m		Amount of time for the entire infusion, from the start of the first dose till the end of the last KVO.
	Default Call-back Before Dose	Off	Min: 00h:05m Max: 1h:00m		When this feature is turned on, the user can pause the pump during the KVO period and the "Pump is paused" message will not be triggered. This allows the user to disconnect from the pump, but not to turn it off. According to this configuration, the pump will remind the user when the next dose is due.
	Minimum KVO Rate	0.1 mL/h	[0.1, Max KVO] mL/h		Minimum Keep Vein Open administration rate.
	Maximum KVO Rate	10 mL/h	[Min KVO , 10] mL/h		Maximum Keep Vein Open administration rate.
	Default KVO Rate	Off	Min: Min KVO Max: Max KVO		The default Keep Vein Open administration rate.
	Minimum Dose Rate	0.1 mL/h	[0.1, Max Dose Rate] mL/h		Minimum dose rate that each intermittent dose is delivered.
	Maximum Dose Rate	300 mL/h	[Min Dose Rate, 300] mL/h		Maximum dose rate that each intermittent dose is delivered.
	Minimum Dose Volume	0.1 mL	[0.1, Max Dose Volume] mL		Minimum volume of each intermittent dose.
	Maximum Dose Volume	999 mL	[Min Dose Volume, 999] mL		Maximum volume of each intermittent dose.

Program-Specific Settings

Intermittent

Modes	Setting Name	Factory Value	Values/Ranges	Account Settings	Description
Intermittent	Minimum Dose Duration	00h:01m	[00:01, Max Dose Duration] h:m		Maximum intermittent dose delivery duration.
	Maximum Dose Duration	24h:00m	[Min Dose Duration, 24:00] h:m		Minimum intermittent dose delivery duration.
	Minimum Dose Interval	00h:11m	[00:11, Max Dose Interval] h:m		Minimum time between a beginning of one dose and the beginning of the following dose.
	Maximum Dose Interval	96h:00m	[Min Dose Interval, 96:00] h:m		Maximum time between a beginning of one dose and the beginning of the following dose.
	Minimum VTBI	0.1 mL	[0.1, Max VTBI] mL		Minimum volume to be infused, including all doses and all the between doses volume that is delivered in KVO rate.
	Maximum VTBI	9,000 mL	[Min VTBI, 9,000] mL		Maximum volume to be infused, including all doses and all the between doses volume that is delivered in KVO rate.
	Dosing Unit	On	Off, On		If programming is done using mL only, the "dosing units" can be hidden from the programming page to increase efficiency.

Program-Specific Settings

PCA

Modes	Setting Name	Factory Value	Values/Ranges	Account Settings	Description
PCA	KVO Rate	0 mL/h	[0.1, 10] mL/h		Keep Vein Open administration rate.
	Bolus Rate	125 mL/h	[Min Bolus Rate, Max Bolus Rate] mL/h		Setup the bolus rate.
	Minimum VTBI	0.1 mL	[0.1, Max VTBI] mL		Minimum volume to be infused.
	Maximum VTBI	9,999 mL	[Min VTBI, 9,999] mL		Maximum volume to be infused.
	Minimum Continuous Rate	0.1 mL/h	[0.1, Max Continuous Rate] mL/h		Minimum infusion rate between bolus doses.
	Maximum Continuous Rate	100 mL/h	[Min Continuous Rate, 100] mL/h		Maximum infusion rate between bolus doses.
	Minimum Bolus Volume	0.1 mL	[0.1, Max Bolus Volume] mL		Minimum volume of a bolus.
	Maximum Bolus Volume	50 mL	[Min Bolus Volume, 50] mL		Maximum volume of a bolus.
	Minimum Lockout Duration	00h:01m	[00:01, Max Lockout Duration] h:m		Minimum amount of time between boluses when the user cannot initiate a bolus.
	Maximum Lockout Duration	24h:00m	[Min Lockout Duration, 24:00] h:m		Maximum amount of time between boluses when the user cannot initiate a bolus.
	Minimum Boluses	1 per hour	[1, Max Number of Boluses]		Minimum number of boluses permitted per hour.

Program-Specific Settings

PCA					
Modes	**Setting Name**	**Factory Value**	**Values/Ranges**	**Account Settings**	**Description**
PCA	Maximum Boluses	60 per hour	[Min number of Boluses, 60]		Maximum boluses permitted per hour.
	Minimum Total Dose Limit	1 mL	[1, Max Total Dose Limit] mL		In addition to the lockout time, the patient boluses temporarily become unavailable if the amount of medication delivered has reached the total dose defined within the defined duration.
	Maximum Total Dose Limit	9,999 mL	9,999 mL		In addition to the lockout time, the patient boluses temporarily become unavailable if the amount of medication delivered has reached the total dose defined within the defined duration.
	Minimum Loading Dose Volume	0.1 mL	[0.1, Max Loading Dose Volume] mL		Minimum volume that can be programmed as an initial dose at the beginning of an infusion.
	Maximum Loading Dose Volume	50 mL	[Min Loading Dose, 50] mL		Maximum volume that can be programmed as an initial dose at the beginning of an infusion.
	Minimum Bolus Rate	0.1 mL/h	[0.1, Max Bolus Rate] mL/h		The minimum bolus rate.
	Maximum Bolus Rate	300 mL/h	[Min Bolus Rate, 300] mL/h		The maximum bolus rate.
	Loading Dose	On	Off, On		A loading dose is an optional clinician bolus given at the beginning of the infusion. When repeating an infusion, Loading Dose is unavailable.
	Dosing Unit	On	Off, On		If programming in mL only, the "dosing units" can be hidden from the programming page to increase efficiency.

Program-Specific Settings

Taper

Modes	Setting Name	Factory Value	Values/Ranges	Account Settings	Description
Taper	Immediate Taper Down	Off	Off, **On**		Allows the user to end the infusion with a gradual decrease in infusion. Immediate Taper Down becomes available after the infusion reaches its plateau, and 'TAPER D' appears on the main screen.
	KVO Rate	0 mL/h	Min: 0.1 mL/h Max: 10 mL/h		Keep Vein Open administration rate.
	Minimum VTBI	10 mL	[10, Max VTBI] mL		Minimum volume to be infusion.
	Maximum VTBI	9,999 mL	[Min VTBI, 9,999] mL		Maximum volume to be infused.
	Minimum Taper Up	00h:10m	[00:10, Max Taper Up Duration] h:m		Minimum amount of time rate increases until reaching the plateau rate.
	Maximum Taper Up	03h:50m	[Min Taper Up Duration, 03:50] h:m		Maximum amount of time rate increases until reaching the plateau rate.
	Minimum Taper Down	00h:10m	[00:10, Max Taper Down Duration] h:m		Minimum amount of time at which rate decreases from the end of the plateau rate.
	Maximum Taper Down	03h:50m	[Min Taper Down Duration, 03:50] h:m		Maximum amount of time at which rate decreases from the end of the plateau rate.
	Minimum Total Duration	00h:10m	[00:10, Max Total Duration] h:m		Minimum amount of time for the entire infusion.
	Maximum Total Duration	96h:00m	[Min Total Duration, 96:00] h:m		Maximum amount of time for the entire infusion.

Program-Specific Settings

Taper

Modes	Setting Name	Factory Value	Values/Ranges	Account Settings	Description
Taper	Minimum Plateau Rate	0.4 mL/h	[0.4, Max Plateau Rate] mL/h		Minimum rate of infusion during the plateau.
	Maximum Plateau Rate	300 mL/h	[Min Plateau Rate, 300] mL/h		Maximum rate of infusion during the plateau.

Pump Settings | Authorization

Avoset™ Programming Settings Defined and Agreed

Name	Date	Signature

Notes

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