

Continuous Glucose Monitoring

INITIATION SETTINGS FOR THE MiniMed® 640G SYSTEM^



This document will provide guidance as to recommendations for the initial settings for the MiniMed® 640G System with SmartGuard™.

LOW SETTINGS

These settings are intended to provide warning for the patient when the sensor detects actual or impending hypoglycaemia. By using the SmartGuard™ suspend by sensor features, insulin can be automatically suspended and resumed based on the set low limit. Initial settings are intended to balance safety while minimising unnecessary alerts. Settings are individualised in all cases.

Determine Time Segments

- Up to 8 time segments can be set for 24 hour period
- Different low settings can be selected for each time segment

Considerations

- Define segments for day and night
- Consider segments for regularly occurring activity

Determine Low Limit for each time segment

• Can be set between 2.8 - 5 mmol/L in increments of 0.2

Considerations

- Start at 3.2 mmol/L during day
- Increase by ~10% for night time
- Increase for history of hypoglycaemia or hypoglycaemia awareness
- Decrease in pregnancy when tighter control is desired

Determine SmartGuard™ Suspend by Sensor option

Stops insulin delivery when sensor glucose is predicted to be approaching the low limit in 30 minutes

Option 2: Suspend on Low

Stops insulin delivery when sensor alucose reaches or falls below the low limit

Alert only options used

When Suspend by sensor options are used, insulin delivery will automatically resume when SG is above the low limit and trending upward.**

Considerations

- Use Suspend before low during the day and night to minimise patient burden and best prevent hypoglycaemia
- · May prefer suspend on low during the day when patient is frequently interacting with their pump

Options for Alerts

Alert before low

Alert

on low

Using Suspend before Low

OPTIONAL ALERT Alerts when insulin suspends

ALERT NOT OPTIONAL - ALWAYS ON Alerts when SG reaches or falls below low alert

Resume basal alert

OPTIONAL ALERT

Alerts when insulin resumes based on SG

Using Suspend on Low

OPTIONAL ALERT

Alerts when SG is predicted to reach low limit within 30 minutes

ALERT NOT OPTIONAL - ALWAYS ON

Alerts when SG reaches or falls below low alert and insulin suspends

OPTIONAL ALERT

Alerts when insulin resumes based on SG

Using no suspend

OPTIONAL ALERT

Alerts when SG is predicted to reach low limit within 30 minutes

OPTIONAL ALERT

Alerts when SG reaches or falls below low alert

N/A

Considerations

• Keep optional alerts off to minimise patient burden • Use Alert before low during the day to prompt patient involvement

- Time before alert repeats after cleared if condition still exists
- Allows time for patient to treat hypoglycaemia and glucose to rise
- One setting applies to all low alerts
- Can be set from 5 minutes to 1 hour

Considerations

- Default of 20 minutes generally appropriate
- Insulin delivery is suspended when sensor glucose is at or within 3.9 mmol/L above the low limit and predicted to be at or within 1.1 mmol/L above the low limit in 30 minutes.
- ** Insulin delivery resumes when sensor glucose is at least 1.1 mmol/L above the low limit and predicted to be more than 2.2 mmol/L above in 30 minutes.

HIGH SETTINGS

High alerts are intended to detect actual or impending hyperglycaemia so the patient can respond and prevent or reduce the high excursion. Initial settings are intended to balance safety while minimising unnecessary alerts. Settings are individualised cases.

It is recommended that High Settings be Off at CGM initiation to minimise the number of alerts patient receives. Once patient is comfortable using CGM and initial insulin adjustments have been made to improve control, high alerts are added. This generally occurs 1 to 4 weeks after initiation.

Determine Time Segments

- Up to 8 time segments can be set for 24 hour day
- Different high settings can be selected for each time segment

Considerations

• Use one time segment for entire 24 hour period

Determine High Limit for each time segment

• Can be set between 5.6 mmol/L - 22.2 mmol/L in increments of 0.2

Considerations

- Start at 13.8 mmol/L once high alerts are turned on
- Decrease the limit as glucose control improves and hyperglycaemia decreases
- Alternatively may use Medtronic CareLink® data to determine initial setting
- If patient reports too many alerts, increase the limit with therapy adjustments

3 Options for Alerts

Alert before high

- Alerts when high glucose is predicted to occur
- Used to prevent or reduce the severity of high glucose excursion
- Time can be set between 5 30 minutes in 5 minutes increments

Alert on high

 Alerts when SG reaches the high limit

Rate Alert

- Alerts when SG has risen at a specified rate of change
- Can be used as indicator for missed boluses
- Rise Limit can be set to alert
- when 1, 2 or 3 trend arrows display on the pump screen
- at rate you set between 0.50 - 0.275 mmol/L/min

Considerations

- Leave Off to decrease the burden of frequent alerts with limited perceived value
- Using with Alert on high will likely result in excessive alerts
- Set at 15 minutes if On
- Off at initiation
- Turn On after initial insulin adjustments have been made to improve control
- · Adjust high limit as needed
- Leave Off to decrease the burden of frequent alerts with limited perceived value
- Set at 0.220 mmol/L/min to alert patients only of very rapid changes that may occur
- If patient reports too many alerts, increase rate alert or turn alert off

Snooze

- Time before alert repeats after cleared if condition still exists
- Allows time for insulin to take effect and high glucose to decrease
- One setting applies to all high alerts
- Can be set from 5 minutes to 3 hours

Considerations

Set at 2 hours

CONTINUOUS GLUCOSE MONITORING INITIATION SETTINGS

Prescriber's Instr	uctions to Patient	:		
Patient Name:			DOB:	Date:
Low Setting	s:			
TIME SEGMENTS	LOW LIMIT	CHOOSE SI	MARTGUARD™ OPTI	ON AND ALERTS
	2.8-5 mmol/L (increments of 0.2)	☐ Suspend before low O	· ·	OR ☐ No suspend by senso☐ Alert before low ☐
00:00	mmol/L	Alert before Low Resume Basal Alert		☐ Alert before low ☐ Alert on low ☐
	mmol/L	Suspend before low Alert before Low Resume Basal Alert	R Suspend on low Alert before Low Resume Basal Alert	OR No suspend by sensor Alert before low Alert on low
	mmol/L	Suspend before low Alert before Low Resume Basal Alert	Alert before Low	OR No suspend by sensor Alert before low Alert on low
Low Snooze:	minutes (5 mir	n to 1 hour; Default setting	g is 20 minutes)	
High Cottine	44.			
High Setting		ings bolow bogin	(dato)	
TIME SEGMENTS	HIGH LIMIT	tings below begin (date) CHOOSE HIGH ALERTS		
00:00	5.6-22.2 mmol/L (increments of 0.2) mmol/L OR □ High Alerts Off	Alert before High ☐ Time: minutes (5-30 min)	Alert on High	Rise Alert Rise Limit: 1 2 3 arrow Custom mmol/L (0.050-0.275 mmol/L/min)
	mmol/L OR High Alerts Off	Alert before High Time: minutes (5-30 min)	Alert on High 🗖	Rise Alert Rise Limit: 1 2 3 arrow Custom mmol/L (0.050-0.275 mmol/L/min)
	mmol/L OR High Alerts Off	Alert before High Time: minutes (5-30 min)	Alert on High 🗖	Rise Alert Rise Limit: 1 2 3 arrow Custom mmol/L (0.050-0.275 mmol/L/min)
High Snooze:	minutes (5 mi	in to 3 hours; Default settir	ng is 1 hour)	
□ No, it is preferre	ed that the patient i	necessary after initial u not adjust settings with	out consulting pres	criber.
Prescriber Name: .				
Prescriber Signatu	ıre:			Date:

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^Components sold separately. Automated insulin delivery is made possible through combining Medtronic insulin pump and continuous glucose monitoring technology.

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