

	MiniMed 670G / 770G	MiniMed 780G	t:slim X2 Control-IQ	Omnipod 5
				
CALCULATE				
What is automation called?	Auto Mode	SmartGuard	Control-IQ	Automated Mode
Basal automation?	Automated basal insulin delivery calculated based on total daily insulin from past 2-6 days ("auto basal")	Automated basal insulin delivery calculated based on total daily insulin from past 2-6 days ("auto basal")	Automated basal insulin delivery that increases or decreases programmed basal rates	Automated basal insulin delivery calculated from total daily insulin, which is updated with each pod change
Bolus automation?	No (auto basal only to respond to hyperglycemia)	Auto-correction bolus if glucose > 120 mg/dL and at maximum "auto basal" delivery	Auto-correction bolus (max 1/hour) if glucose predicted to be >180 mg/dL, delivers 60% of calculated dose	No (adaptive basal only to respond to hyperglycemia)
Algorithm target glucose / range?	120 mg/dL	"BG Target" 100, 110, 120 mg/dL	112.5-160 mg/dL (range)	"Target Glucose" in pump menus or "BG Target Range" on glooko reports 110, 120, 130, 140, 150 mg/dL

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ADJUST				
Can users adjust Basal rates?	No	No	Yes	No
Can users adjust I:C ratios?	Yes	Yes	Yes	Yes
Can users adjust correction factor (sensitivity)?	No	No	Yes	Yes
Can users adjust active insulin time?	Yes	Yes	No, fixed at 5 hours	Yes
Can users adjust correction target?	No, fixed at 150 mg/dL	No, fixed at 120 mg/dL	No, fixed at 110 mg/dL	Yes – same as algorithm target
Can user give combo boluses?	No	No	Yes (extend up to 2 hours)	No
Can user change/edit recommended bolus doses?	No	No	Yes	Yes
What are the special features in automation?	Temp Target: Changes target glucose to 150 mg/dL for set duration (30 min - 12 hr)	Temp Target: Changing target glucose to 150 mg/dL for set duration (30 min - 24 hr)	Exercise Activity: Changes target range to 140-160 mg/dL (manual start/stop only) Sleep Activity: Narrows target range to 112.5-120 mg/dL and prevents auto corrections. Intended to be used during sleep	Activity Feature: Changes target BG to 150 mg/dL AND reducing insulin delivery at that target for set duration (1-24 hrs)
Most useful parameters for fasting adjustments	No parameters to change Could use temp target to help prevent hypoglycemia	"BG Target" (algorithm target) Active insulin time (2 hours to optimize performance)	Basal rates	Target Glucose (algorithm target)
Most useful parameters for bolus adjustments	I:C ratio	I:C ratio	I:C ratio Correction factor (for auto corrections and manual corrections)	I:C ratio

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REVERT				
Is there a limited automation mode to which the system may revert?	<p>Safe Basal- static basal rate without glucose-dependent adjustment.</p> <p>May activate due to max/min delivery constraints, loss of CGM data, or system concerns about sensor accuracy.</p>	<p>"Time to Exit" = Safe Basal- static basal rate without glucose-dependent adjustment.</p> <p>May Activate due to max/min delivery constraints, loss of CGM data or system concerns about sensor accuracy.</p>	No	<p>Automated Limited = static basal rate without glucose-dependent adjustment.</p> <p>Activates if no CGM data for ≥ 20 min. Resumes full insulin automation once CGM data returns.</p> <p>Activates with a "Restriction Advisory" alarm (if insulin suspended too long or max delivery too long). Will remain in automated limited until the user clears the alarm.</p>
Automatically reverts to manual mode	Sensor glucose >300 for 1 hour; Sensor glucose > 250 for 3 hr; and after 90 min. in safe basal mode	After 4 hours in safe basal mode	If no CGM data ≥ 20 min.	If "Restriction Advisory" alarm (max delivery or insulin pause for too long), the user will need to clear alarm. The user will be prompted to confirm CGM accuracy, and then be reverted to manual mode. The user can turn automated mode back on after 5 minutes.
When should the user switch to manual mode (no automation)?	<p>Switch to manual mode to use temporary basal rates</p> <p>May consider manual mode use for illness/ketones, steroids, etc.(abrupt changes in insulin requirements)</p> <p>Use manual mode for 2-4 hours after syringe injection since system will not have record of insulin-on-board from injection</p>			

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EDUCATE				
Meal time considerations	Strengthen I:C ratios 10-25%	Bolus calculator auto-populates sensor glucose level for calculation OR BG if done in past 12 minutes	Bolus calculator auto-populates sensor glucose level for calculation Read bolus prompts carefully, if sensor glucose <110, system will prompt you to reduce carb bolus, choose X to deliver full dose for carbs	System reduces or suspends insulin delivery if glucose is trending down or below target, resulting in little IOB leading up to meal times. Insulin suspension is especially likely in early morning hours as the algorithm drives the glucose to the target. Consider strengthening i:C ratios and/or bolusing 15-20 minutes prior to a meal to overcome insulin deficit. Bolus calculator adjusts recommended dose based on trend arrow. Tap "use CGM" to incorporate trend arrow into bolus dose calculations.
Overnight considerations	If users insulin sensitivity fluctuates widely overnight (e.g. young children), consider setting a temp target to prevent hypoglycemia		Set sleep activity schedule for every night-tighter target with no auto-corrections	Can adjust Target Glucose overnight as needed
Exercise considerations	Use temp target	Use temp target	Use exercise activity, but note that auto-corrections will still occur	Use Activity Feature
Other considerations	Follow system prompts for BG Required to stay in Auto Mode Calibrate the sensor 3-4 times per day before meals and at bedtime; avoid sensor calibration when glucose fluctuating widely (e.g. after eating, after treating hypo, during exercise) Check fingerstick BG at meal-time and for hyperglycemia and enter into pump to give correction bolus; this will improve glucose control and help prevent auto mode exits	Follow system prompts for BG Required to stay in SmartGuard If using Guardian 3 CGM: Calibrate the sensor 3-4 times per day before meals and at bedtime; avoid sensor calibration when glucose fluctuating widely (e.g. after eating, after treating hypo, during exercise)		Experiencing "Automated Delivery Restriction" alerts in early weeks of use may be more common, but will decline over time as the system adapts to total daily insulin with the first few pod changes. Insulin suspension may occur if glucose is trending down, even if glucose is above programmed target glucose level. This is expected and will be short in duration (e.g. 5-10 min) if glucose does not continue to drop. Avoid pod area when using aerosolized sunscreens/bug sprays as may cause pod failures
General education for all AID systems	Do not override recommended bolus doses to give more insulin, as algorithm has likely been giving more insulin in background Bolus for all meals before starting to eat. If bolus is given after meal, the algorithm will have delivered extra insulin and user may have hypoglycemia Consider treating low glucose levels with less carbohydrates (5-10 g CHO) since insulin will likely have been decreased or suspended			

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SENSOR/SHARE				
Which CGM is compatible with system?	Guardian 3	Guardian 3 or 4 — varies by geographic location	Dexcom G6	Dexcom G6: must use mobile app (on personal cell phone) to use Automated Mode
Calibration needed?	Yes; every 12 hours minimum	Guardian 3: Yes; every 12 hours minimum Guardian 4: No routine calibration required, but system may request calibration periodically	No, factory calibrated	No, factory calibrated
How long does the sensor last?	7 days maximum	Guardian 3 & 4: 7 days maximum	10 days maximum	10 days maximum
Can user see data on phone?	670G: No 770G: Yes, MiniMed mobile app (pump and CGM data)	Yes, MiniMed mobile app (pump and CGM data)	Yes, Dexcom G6 mobile app (CGM data) t:Connect Mobile app (pump + CGM data)	Yes, view pump and CGM data on OP5 controller (app on compatible phone(s) or separate PDM) View CGM data on Dexcom G6 mobile app (also used for stopping/starting sensor, setting alerts, calibrating)
Can others see data remotely?	670G: No 770G: Yes, Carelink Connect app	Yes, Carelink Connect app	Yes, Dexcom G6 Follow app (CGM data)	Yes, Dexcom G6 Follow app (CGM data)
Is data automatically stored in the cloud?	670G: No 770G: Yes via MiniMed mobile app (pump and CGM data)	Yes via MiniMed mobile app (pump and CGM data)	Yes; via t:connect mobile app	Yes
Does sensor glucose value auto-populate into bolus calculator?	No; fingerstick BG check needed	Yes	Yes	Yes; tap "use CGM" to populate current sensor glucose value and trend