

Information is specific to use of each pump's AID features

twiist™ AID System powered by Tidepool



CALCULATE

Basal automation?	Adjusts the programmed basal rates every 5 minutes based on a 6-hour predicted CGM glucose, aiming for the correction target (middle of correction range).
Bolus automation?	No automated boluses. Algorithm will increase basal doses up to the max basal rate programmed in the pump to help correct hyperglycemia.
Algorithm target glucose/target range?	Target range (Called "Correction Range"), can set any range between 87-180 mg/dL. Algorithm targets middle of the range. Can set multiple ranges throughout 24 hour day.
Which insulin does the user give?	User gives boluses for meals by entering total grams of carbs in the bolus menu User can deliver correction boluses as needed in the bolus menu

ADJUST

When using AID, what settings can you adjust?	Basal Rates	I:C Ratios	Correction/Sensitivity Factor	Active Insulin Time
	Yes	Yes	Yes	No, fixed at 6 hours
Can user give extended boluses?	No, however, user can select an emoji to enter estimated carb absorption time, which will adjust bolus/basal delivery around the meal. Or can enter a carb absorption time between 30 min - 8 hours.			
Can user change/override recommended bolus doses in bolus calculator?	Yes			
What are the special features in automated insulin delivery?	Pre-Meal Preset (correction range for up to 1 hour before meals, 67-130 mg/dL, typically set lower than general correction range). Workout Preset (set a correction range to use for exercise, 87-250 mg/dL).			
Which pump settings impact automated insulin delivery (insulin delivered by the algorithm)?	Basal rates Maximum Basal Rate (used as max basal for basal automation). Recommended to set at 3-4x highest basal rate. Sensitivity Carb ratio Correction Range (can set different ranges at 30 min intervals throughout day). Consider a 20mg/dL range (e.g., 90-110 mg/dL). Glucose safety limit (suspends insulin delivery if glucose is predicted to drop below this value in next 3 hours; can be set 67-110 mg/dL)			

REVERT

Is there a limited automation mode the system may revert to if there is a loss of CGM communication or other reasons?	No, there is no limited automation mode. If there is loss of CGM data for > 15 min., Loop will revert to programmed basal rates within 30 minutes.
When will the system automatically revert to manual mode (conventional pump therapy using programmed basal rates — no insulin dose automation)?	When there is no CGM data for > 15 min., the pump will revert to manual mode within 30 min. Loop automation resumes automatically when CGM data returns.

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EDUCATE

Mealtime and Bolus Considerations	<p>Pre-bolus for all meals and snacks. Can bolus late for meals by changing the time of the meal in the bolus menu.</p> <p>Use the pre-meal preset up to 1 hour before meals to get more aggressive basal insulin and reduce post-prandial hyperglycemia.</p> <p>Indicate carbohydrate absorption for meals to better match insulin delivery to food type and help algorithm track active carbohydrates more accurately.</p> <ul style="list-style-type: none"> • Emoji options: Lollipop: Fast (30 min), Taco: Medium (3 hours), Pizza: Slow (5 hours); or manually enter absorption time 30 min - 8 hours <p>It is best NOT to override the bolus calculator's suggested dose (although there may be exceptions). The bolus calculator will subtract IOB from increased automated insulin delivery, helping to reduce the chance of hypoglycemia.</p>
Sleep Considerations	Can adjust correction range for sleep hours
Exercise Considerations	Use Workout Preset 1-2 hours prior to exercise; Workout Preset is a higher correction range to reduce insulin delivery
Other Considerations	<p>twiist app only compatible with iOS. Must have an iPhone to use twiist system.</p> <p>User should respond to Line Block alarms by replacing infusion set if no tubing disconnection is identified</p>

SENSOR/SHARE

Which CGM is compatible? <i>*CGM options may vary by region</i>	<p>Freestyle Libre 3+: Must pair on twiist app, cannot use Libre apps or reader</p> <p>Eversense 365: CGM is started on Eversense app and then linked to twiist app after the first 2 calibrations are completed</p>
How long does the sensor last?	15 days
Can user see real-time data on personal cell phone?	twiist app (pump + CGM data)
Can others see data remotely?	twiist insight app for remote pump and sensor data sharing
Is data automatically stored in the cloud?	Automatic uploads to Tidepool Data Platform