



## How does Control-IQ technology work?

Control-IQ technology is designed to help increase time in range (3.9-10.0 mmol/L)\* using Dexcom G6 continuous glucose monitoring (CGM) values to predict glucose levels 30 minutes ahead and adjust insulin delivery accordingly, including delivery of automatic correction boluses (up to one per hour).†

		Control-IQ technology	Sleep Activity	Exercise Activity
<b>Delivers</b>	Delivers an automatic correction bolus if sensor glucose is predicted to be above ___ mmol/L	10.0	--	10.0
<b>Increases</b>	Increases basal insulin delivery if sensor glucose is predicted to be above ___ mmol/L	8.9	6.7	8.9
<b>Maintains</b>	Maintains active Personal Profile settings when sensor glucose is between ___ - ___ mmol/L	6.25-8.9	6.25-6.7	7.8-8.9
<b>Decreases</b>	Decreases basal insulin delivery if sensor glucose is predicted to be below ___ mmol/L	6.25	6.25	7.8
<b>Stops</b>	Stops basal insulin delivery if sensor glucose is predicted to be below ___ mmol/L	3.9	3.9	4.4

## Control-IQ technology pump icons

Icon	Explanation
	Control-IQ technology is on but not actively increasing or decreasing basal insulin delivery.
	Control-IQ technology is increasing basal insulin delivery.
	Control-IQ technology is decreasing basal insulin delivery.
	Control-IQ technology has stopped basal insulin delivery.
	Control-IQ technology is delivering an automatic correction bolus (or an automatic bolus).
	The Sleep Activity is enabled.

Icon	Explanation
	Control-IQ technology is delivering the normal Personal Profile basal rate.
	Control-IQ technology is increasing basal insulin delivery.
	Control-IQ technology is decreasing basal insulin delivery.
	Basal insulin delivery is stopped and a basal rate of 0 u/hr is active.
	Control-IQ technology is delivering an automatic correction bolus.
	The Exercise Activity is enabled.

### Responsible Use of Control-IQ Technology

Even with advanced systems such as the t:slim X2 insulin pump with Control-IQ technology, you are still responsible for actively managing your diabetes. Control-IQ technology does not prevent all high and low blood glucose events. The system is designed to help reduce glucose variability, but it requires your accurate input of information, such as meals and periods of sleep or exercise. Control-IQ technology will not function as intended unless all system components, including CGM, infusion sets and pump cartridges, are used as instructed. Importantly, the system cannot adjust insulin dosing if the pump is not receiving CGM readings. Because there are situations and emergencies that the system may not be capable of identifying or addressing, patients should always pay attention to your symptoms and treat according to your healthcare provider's recommendations.

\* As measured by CGM. † If glucose values are predicted to be above 10.0 mmol/L, Control-IQ technology calculates a correction bolus using the Personal Profile settings and a target of 6.1 mmol/L and delivers 60% of that value. An Automatic Correction Bolus will not occur within 60 minutes of a bolus that has been delivered or cancelled.

The instructions below are provided as a reference tool for caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the t:slim X2 insulin pump, please refer to its user guide.

## How to turn Control-IQ technology on or off



From the **Options** menu, tap **My Pump**.



Tap **Control-IQ**.



From this screen, Control-IQ technology can be toggled on or off.



Enter the user's weight in kilograms.



Next, enter the average daily insulin use in units.

**Note:** Total Daily Insulin should be an estimate of total basal and bolus insulin the user requires in a 24-hour period.

**Note:** Existing t:slim X2 users can find their average Total Daily Insulin under Options, History, Pump History, Delivery Summary, and then 14-day Average.



Tap  to save the settings. Control-IQ technology is now on.

**Note:** Patient must enter their weight, Total Daily Insulin (TDI), have an active Personal Profile with CARBS turned on, and an active CGM session, in order to turn Control-IQ technology on.

**Important Safety Information:** The t:slim X2 insulin pump with Control-IQ technology (the System) consists of the t:slim X2 insulin pump, which contains Control-IQ technology, and a compatible continuous glucose monitor (CGM, sold separately). The t:slim X2 insulin pump is intended for the subcutaneous delivery of insulin, at set and variable rates, for the management of diabetes mellitus in people requiring insulin. The t:slim X2 insulin pump can be used solely for continuous insulin delivery and as part of the System. When used with a compatible CGM, the System can be used to automatically increase, decrease, and suspend delivery of basal insulin based on CGM sensor readings and predicted glucose values. The System can also deliver correction boluses when the glucose value is predicted to exceed a predefined threshold. The pump and the System are indicated for use in individuals six years of age and greater. The pump and the System are indicated for single user use. The pump and the System are indicated for use with NovoRapid or Humalog U-100 insulin. The System is intended for the management of Type 1 diabetes.

**WARNING:** Control-IQ technology should not be used by anyone under the age of six years old. It should also not be used in patients who require less than 10 units of insulin per day or who weigh less than 25 kilograms.

The System is not indicated for use in pregnant women, people on dialysis, or critically ill users. Do not use the System if using hydroxyurea. Users of the pump and the System must: be willing and able to use the insulin pump, CGM, and all other system components in accordance with their respective instructions for use; test blood glucose levels as recommended by their healthcare provider; demonstrate adequate carb-counting skills; maintain sufficient diabetes self-care skills; see healthcare provider(s) regularly; and have adequate vision and/or hearing to recognize all functions of the pump, including alerts, alarms, and reminders. The t:slim X2 pump and the CGM transmitter and sensor must be removed before MRI, CT, or diathermy treatment. Visit [tandemdiabetes.com/safetyinfo](https://tandemdiabetes.com/safetyinfo) for additional important safety information.

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