















How Does Control-IQ Technology Work?







Control-IQ™ technology is designed to help increase time in range (3.9-10 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	 Sleep Activity	 Exercise Activity
 Delivers	Delivers an automatic correction bolus if sensor glucose is predicted to be above ___ mmol/L	10	--	10
 Increases	Increases basal insulin delivery if sensor glucose is predicted to be above ___ mmol/L	8.9	6.7	8.9
 Maintains	Maintains active Personal Profile settings when sensor glucose is between ___ - ___ mmol/L	6.25 - 8.9	6.25-6.7	7.8 - 8.9
 Decreases	Decreases basal insulin delivery if sensor glucose is predicted to be below ___ mmol/L	6.25	6.25	7.8
 Stops	Stops basal insulin delivery if sensor glucose is predicted to be below ___ mmol/L	3.9	3.9	4.4

*As measured by CGM.

Control-IQ Technology Pump Icons

Symbol	Meaning
	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.

Symbol	Meaning
	Control-IQ technology is delivering the normal Personal Profile basal rate.
	Control-IQ technology is increasing basal insulin delivery.
	Control-IQ technology is decreasing the 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.

Control-IQ Technology

for the t:slim X2 Insulin Pump

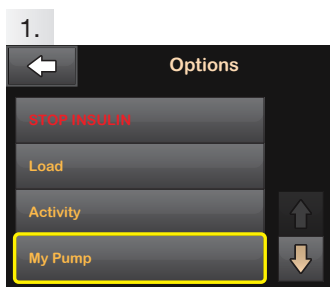


UNITS OF MEASURE **MMOL/L**

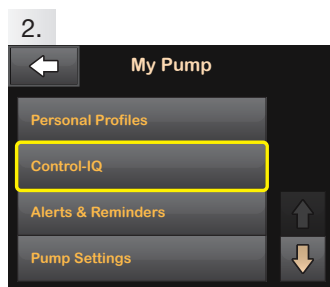
The instructions below are provided as a reference tool for caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the t:slim X2™ insulin pump, please refer to its user guide.



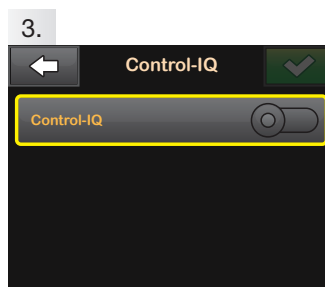
To turn Control-IQ technology On or Off:



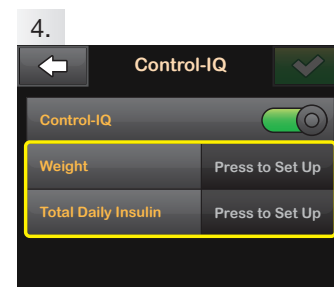
From the Options menu, tap **My Pump**.



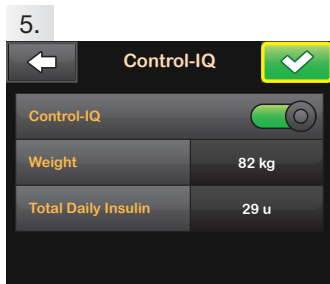
Tap **Control-IQ**.



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



Next, enter the user's weight in kilograms and average daily insulin use in units. Total Daily Insulin should be an estimate of total basal and bolus insulin the user requires in a 24-hour period. Control-IQ technology cannot be enabled unless both weight and total daily insulin are entered.



Tap  to save the settings.

Control-IQ technology is now on.

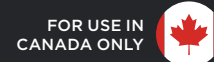
NOTE: User must enter their weight, Total Daily Insulin (TDI), have an active Personal Profile with CARBS turned on, and an active CGM session, in order to turn Control-IQ technology on.

NOTE: Existing t:slim X2 users can find their average Total Daily Insulin under Options > History > Pump History > Delivery Summary > 14-day Average.



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t:simulator™ App
A free virtual pump demo



† 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.

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 intended 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 users 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 for additional important safety information.

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