minimed

MINIMED™ 780G INSULIN PUMP SYSTEM

TALK DIABETES WITH STEVE

Automated Mode: SmartGuard Technology

- SmartGuard requires 48-hours of insulin delivery before the feature can be used
  - Warm up period begins at the first midnight after delivery has started
  - Impacts SmartGuard therapy: Active Insulin Time, Bolus Speed, Carb Ratio
  - Staying in SmartGuard: When the pump requires an action to stay in SmartGuard, basal insulin is delivered at a fixed rate for 4 hours
    - Time limit reached for minimum delivery (3-6 hours depending on reason)
    - Basal insulin has been delivered at its maximum limit for 7 hours
    - SG readings are lower than BG values
    - No SG data has been received for more than 5 minutes
- Delivers basal insulin based on recent insulin delivery needs, sensor glucose and glucose target
  - **Basal Patterns**: Up to 8 basal patterns can be set with up to 48 basal rates that cover a full 24-hour period
- Delivers bolus insulin based on sensor glucose values and carb entries
  - **Automatic Correction Bolus**: delivered up to every 5 minutes if SmartGuard feature determines that a correction bolus is needed
    - **Meal Detection Technology**: Stronger automatic correction delivered if meal bolus is missed based on rapid rise of glucose levels
    - Target for Auto Correction Bolus based on SG: 120 mg/dL
  - **SmartGuard Target Range:** 100 – 150 mg/dL
    - **Temp Target**: A temporary target of 150 mg/dL can be set for events such as exercise or sleep when less insulin is needed
      - Duration: 30 minutes to 24 hours, in 30-minute increments
      - Can be active with SmartGuard
      - Autocorrection feature is not active when using a temp target

Manual Mode: System delivers insulin based on user input for meal boluses and glucose corrections. Can be used with or without CGM

- No automated adjustments of insulin delivery
- **Bolus Wizard**: manual mode settings used to calculate an estimated bolus amount based on BG and carbs entered
  - Active Insulin Time, BG Target, Carb Ratio, ISF
- **Square Wave Bolus**: A bolus delivered evenly over an extended period of time
  - Delayed digestion, snacking for extended periods, normal bolus drops BG too rapidly, eating mixed meals
  - Duration: 30 minutes to 8 hours
- **Dual Wave Bolus**: Delivers a combination of an immediate normal bolus followed by a Square Wave bolus
- **Suspend on low**: Temporarily stops insulin delivery when sensor glucose reaches a preset low target
- **Suspend before low**: Temporarily stops insulin delivery when BG is predicted to reach the preset low target within 15-30 minutes
  - Insulin delivery restarts when SG value returns to a safe range.
- **Temporary Basal**: Manual Mode setting used to increase or decrease the current basal rate for a short period to accommodate special situations
  - Duration: 30 minutes to 24 hours. Reverts to scheduled basal profile when temp basal ends
  - Set using a % of current basal pattern (0% to 200%) or a fixed rate in units/hour
  - Temporary Rate cannot exceed Max Basal Rate
- **Preset Temp Basal Rate**: Used for recurring, short-term situations
  - 4 preset temp rates (Temp 1 – Temp 4)

Accu-Check Guide Link: meter can be paired directly to pump. If meter is not used, BG must be manually entered into pump

Approved for people with T1D age 7+ and people with T2D age 18+ using a minimum TDD of 8 units up to 250 units