



FACT SHEET



The MiniMed Paradigm® REAL-Time Insulin Pump and Continuous Glucose Monitoring System

FACT SHEET

MiniMed Paradigm® 522 or 722 insulin pump (continued)

Cosmetic attractiveness — offering patients comfort and convenience for daily wear

Feature	Specification	Benefit
Small size	Model 522: 5.08 x 7.62 x 2.03 centimeters (2 x 3 x 0.8 inches) Model 722: 5.08 x 9.14 x 2.03 centimeters (2 x 3.6 x 0.8 inches)	Small, fully featured insulin pumps that are easy to wear and can be easily hidden beneath clothing
Lightweight (with full reservoir)	Model 522: 100 grams Model 722: 108 grams	
4 colour choices	Clear, blue, smoke, and purple	Patient can choose a colour to match their wardrobe or personality
Exclusive remote control	Currently available for all insulin pumps	More privacy with one-touch bolus delivery. Improves ease of use when managing insulin delivery for toddlers

Infusion Sets and Serters

These industry-leading infusion sets offer a complete line of easy to use, convenient and comfortable sets for REAL reliability in insulin administration

Feature	Specification	Benefit
Quick-set®	<ul style="list-style-type: none"> 90° angle insertion At-site disconnect Soft cannula Quick-serter® Auto-insertion device (Quick-serter) 	Features a built-in adhesive (no over-taping is needed) and a self-capturing introducer needle for safe disposal after insertion. Quick-set is available in two cannula lengths and two tubing lengths.
Silhouette®	<ul style="list-style-type: none"> Variable angled insertion At-site disconnect Soft cannula Sil-serter® auto-insertion device (Sil-serter) 	Silhouette has a built-in adhesive (no over-taping is needed) and the variable angled insertion provides the ability to choose insertion depth. Silhouette is available in two cannula lengths and two tubing lengths.
Sof-set Ultimate QR® and Sof-set Micro QR®	<ul style="list-style-type: none"> 90° angle insertion Quick Release® disconnect that is 10cm away from the site Soft cannula Sof-serter® auto-insertion device (Sof-serter) 	Both have a 90° angle insertion and a Quick Release disconnect that is 10cm away from the site for connecting and disconnecting from the insulin pump. Sof-set QR is available in two tubing lengths and two cannula lengths, Ultimate and Micro.
Polyfin QR®	<ul style="list-style-type: none"> Bent surgical steel needle with 35° angle insertion Quick Release disconnect that is 10cm away from the site Built-in adhesive wings (also available without wings) 	Polyfin QR has a smooth bent steel needle and comes with or without a Quick Release disconnect. Polyfin QR is available in two tubing lengths.

System Components



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The MiniMed Paradigm® REAL-Time Insulin Pump and Continuous Glucose Monitoring System

SYSTEM COMPONENTS

Continuous Glucose Sensor

Provides REAL insights to help patients take action sooner and improve their glycaemic control¹⁻³

Feature	Specification	Benefit
Glucose sensor	<p>Tiny electrode worn by patients. The sensor is inserted through the skin typically in the abdominal area. The sensor gives an electronic signal related to the amount of glucose in the interstitial fluid at the insertion site and must be replaced every 3 days</p> <p>This is the same glucose sensor used in the Medtronic CGMS® System Gold™, a continuous glucose monitoring (CGM) system used by clinicians in more than 150,000 patients worldwide</p>	<p>Measures glucose levels continuously as an adjunct to fingerstick measurements. Displays up to 288 glucose readings a day – nearly 100 times more information than three daily fingersticks</p> <p>Accuracy is proven in numerous published studies⁴⁻⁶</p> <p>Patients can shower, bathe or swim while wearing the glucose sensor and MiniLink™ REAL-Time Transmitter</p>
Calibration	It is recommended that patients continue to take a fingerstick measurement preprandial (before each meal) and at night before going to sleep	Calibration is simple and easy to do

The MiniMed Paradigm REAL-Time system must be calibrated at least once every 12 hours. A confirmatory fingerstick is required prior to making a therapy adjustment

MiniLink™ REAL-Time Transmitter

Enables wireless communication, which allows REAL flexibility and comfort for patients

Feature	Specification	Benefit
Small	3.6 cm x 2.8 cm x 0.9 cm.	Less noticeable.
Lightweight	5.4 grams.	Exceptionally comfortable.
Ergonomically shaped	Rounded, no hard edges.	Won't tug, pull, or pinch with movement.
Thin profile	Approximately 0.9cm thickness.	Easy to hide under clothing.
Wireless	Receives and processes signals from the glucose sensor and sends glucose values to the insulin pump through radio frequency (RF).	Provided flexibility to place in different locations of the body.
Waterproof	To a depth of 2.4 meters for 30 minutes.	Can be worn while swimming, bathing, or showering.
Rechargeable	Quick 20-minute recharge lasts up to three days of continuous use and a full recharge lasts up to 14 days of continuous use.	Allows for long-term use and convenience.





The MiniMed Paradigm® REAL-Time insulin pump and continuous glucose monitoring system

FACT SHEET

MiniMed Paradigm® 522 or 722 insulin pump

REAL-Time features — enable patients to take action in REAL-Time to guide therapy

Feature	Specification	Benefit
REAL-Time Trend Graphs	Glucose trends graphed on-screen for 3-hour and 24-hour periods	Shows patients the effect of meals, exercise, insulin, medication and even sick days on their glycaemic control for use in managing their diabetes
REAL-Time Readings	Displays updated glucose readings every 5 minutes on-screen. Glucose values shown as either mg/dL or mmol/L	The use of continuous glucose monitoring to guide patient therapy is proven to improve glycaemic control ^{1,3} which reduces a patient's risk of long-term complications including eye, nerve, kidney and heart disease ^{2,8}
REAL-Time Alarms	Audible or vibrating and on-screen alarms are designed to occur when glucose levels go out of the preset target range. Alarms can be personalised to individual sensitivity thresholds to suit the patient's unique needs. Alarms can be turned off if desired	Warns patients of hyperglycaemia and hypoglycaemia. A patient's use of continuous glucose monitoring is proven to detect highs and lows that may be missed using fingersticks and HbA1c testing alone ^{1,3,9}
REAL-Time Trend Arrows	Single and double arrows point up and down depending on degree and direction of glucose trends. One arrow shows that glucose is increasing or decreasing from 0.055 to 0.11 mmol/L (1 to 2 mg/dL) per minute for the past 20 minutes. Two arrows shows that glucose is increasing or decreasing more than 0.11 mmol/L (2 mg/dL) per minute for the past 20 minutes	Up arrows reveal increases in glucose levels. Down arrows reveal decreases in glucose levels. Double arrows suggest a more rapid increase or decrease. The use of continuous glucose monitoring helps to reduce the duration of high and low blood glucose and HbA1c ^{1,3,9}

Data management — organises therapeutic information to help you and your patients optimise diabetes management

Feature	Specification	Benefit
On-board data management	The MiniMed Paradigm REAL-Time system will show basic statistics including glucose levels (based on fingersticks and continuous glucose monitoring), insulin delivered, bolus details and the number of boluses delivered, viewable by individual day or as an average of up to 31 days	Gives you and your patients information that helps you to make informed therapy management decisions
Solutions® Software for Pumps and Meters 7.0	Downloads insulin, carbohydrate and glucose data directly from the insulin pump to provide more meaningful insights into patient progress than a logbook alone. Patient data can be organised into charts, graphs and tables with trend analyses and customisable reports	Access to meaningful treatment information helps make patient office visits more productive and helps physicians optimise patient therapy more easily

MiniMed Paradigm® 522 or 722 insulin pump (continued)

Clinically desirable features — make it easier for patients to achieve optimal control

Feature	Specification	Benefit
The Bolus Wizard® Calculator	Patented bolus dosing calculator suggests a bolus dose based on personal settings, food intake, blood glucose reading, and the amount of active insulin in the body Includes broad ranges of personal settings, including carbohydrate ratios, insulin sensitivities, and blood glucose targets	Once it's set up, all patients have to do is test their blood glucose and/or enter a food amount. Makes bolus dosing easier and more accurate ^{10,11} Enables patients, who are more sensitive to insulin, to benefit from the patented Bolus Wizard Calculator
Newly enhanced adjustable active insulin curves	The system includes newly enhanced insulin action curves selectable between 2 and 8 hours in duration	Defaults to 6 hours, which most closely represents the published scientific data. ¹¹ Enhancements enable further personalisation based on individual patient requirements
Blood glucose target ranges	Individualised target blood glucose ranges can be programmed into your patient's insulin pump. Correction doses are recommended when the patient's blood glucose is outside this preset range	Helps patients to keep blood glucose levels within their personalised target range by recommending necessary correction doses
High and low blood glucose alerts	When your insulin pump receives high or low results, the insulin pump automatically displays helpful management tips	Helps patients stay on target for good control
Choice of two reservoir capacities	Model 522: 176 units Model 722: 300 or 176 units	Larger reservoir on the MiniMed Paradigm® 722 is optimal for people who require more than 50 units per day; smaller reservoir makes the MiniMed Paradigm 522 more discreet and lightweight
Accuracy of delivery	+/- 5%	Precise dosing with controlled, steady delivery
3 bolus-delivery options	Normal, Square Wave® and Dual Wave™	More closely matches insulin delivery to food type
Basal rates and patterns	3 patterns, each with up to 48 rates	More lifestyle choices with the press of a few buttons to set patterns for different types of days
Basal rate range	0.05 to 35 units per hour	Precise insulin dosing for a variety of clinical needs
Temporary basal rate	Increase or decrease by simple percentage, or set at any rate for 30 minutes, up to 24 hours	Patients can adjust insulin levels quickly in response to stress, illness or changes in activity levels
Blood glucose testing reminders	Built-in bolus menus, set for 30 minutes to 5 hours after a meal	Helps ensure peace of mind. Even if patients forget to test their blood glucose level, the insulin pump won't.
Memory	90 days	Downloads to a patient's computer for full analysis or view up to 31 days of history on the insulin pump screen for immediate review

MiniMed Paradigm® 522 or 722 insulin pump (continued)

Safety and durability — bringing patients more peace of mind every day

Feature	Specification	Benefit
Keypad lock-out	Allows patients to lock the keypad, as they would that of a mobile phone, to prevent programming from accidental keypad presses	Helps to ensure that your patient's therapy management is not compromised by accidental entries, which protects their glycaemic control. Helpful for parents and caregivers when wanting to block child from tampering with settings
Save/Restore settings	All current insulin pump settings can now be saved as a backup to active settings. If the insulin pump settings are cleared or lost for any reason, your patients can restore the settings last saved	Helps patients to maintain their individualised settings for consistent, effective therapy management
Low reservoir alert	Automatic, set-up in units or by time remaining	Ensures your patient's peace of mind by keeping track of their insulin usage and by telling them when it's time to change their reservoir infusion set
Safety checks	Automatic, millions per day	Reliable performance
Alert modes	Beep or vibrate	More privacy with vibrate mode
Water use	Water resistant	Protection against splashes or accidental immersion in water

Ease of use — making your patient's insulin pump easy to learn and program

Feature	Specification	Benefit
Home screen icons – Battery and reservoir levels and clock	Icons for battery level, reservoir level and time of day now appear on every screen	Makes it easier for patients to keep their insulin pump operating properly and effectively
Alarms	Up to 8 customisable reminders each day	Helps patients to remember things they might otherwise forget
Display	Large font display and backlit screen Status screen allows on-screen overview	Easy to read, especially at night Gives patients overview of glucose data to help them make diabetes management decisions more quickly
Menus	E-Z PATH™ programming	Easy for patients to learn and use with menus that walk them through everything
Power source	1 AAA alkaline battery	Affordable and widely available

