

CamAPS FX closed-loop system specifications

Feature	CamAPS FX system
Insulin Pump Compatibility	Dana RS / Dana-i insulin pumps https://advancedtherapeutics.org.uk/
Phone Compatibility	Android smartphones compatible with Dexcom: https://www.dexcom.com/en-GB/compatibility/dexcom-g6-app)
CGM Sensor	Dexcom G6 - factory calibrated, BG tests rarely needed
License	1 years and older, including pregnant women. CE Mark
TDD and weight range	5-350 units/day total daily insulin (TDD) and 10-300kg
Algorithm	Treat to target; adaptive model predictive control
Learning	Continually adjusting insulin delivery every 8-12 minutes based on CGM glucose data received every 5 minutes. Learning from previous insulin delivery and meal bolus info to adapt to post meal, day to day as well as daily insulin needs.
Target	Default target: 5.8 mmol/L Customisable personal target: 4.4 - 11.0 mmol/L
Compatible data sharing software	Diasend – automated uploading every 5-10 minutes (via WIFI or data on SIM card)
Insulin compatibility	Any rapid or ultra-rapid acting insulin
Waterproofing	Pump is fully waterproof (IPX8) and transmitter is waterproof for 8 feet (2.4 metres)
% Time in target range (3.9–10 mmol/L) in clinical trials	Children and adults with variable glucose management (baseline HbA1c 8.3% / 67 mmol/mol) - 65% Adults with tight diabetes management (baseline HbA1c 6.9% / 52 mmol/mol) - 76% Very young children - 70-72%
% Time Below Range (<3.9 mmol/L) in clinical trials	Children and adults with variable glucose management (baseline HbA1c 8.3% / 67 mmol/mol) - 2.6% Adults with tight diabetes management (baseline HbA1c 6.9% / 52 mmol/mol) – 2.9% Very young children – 4.5-4.7%
Discrete bolusing	Yes – via CamAPS FX app on smartphone
Remote monitoring	Yes – via Diasend app and SMS text alerts (if SIM card and data on phone). <i>Awaiting Dexcom Follow compatibility (expected early 2022)</i>
Customisable settings	Insulin : carbohydrate ratio (read from pump) Personal glucose target (4.4 – 11.0 mmol/L) Boost & Ease-off functions Slowly absorbed meal function
Training	Free online training and webinars for diabetes healthcare professionals, people with type 1 diabetes, parents and school / education staff Sign up: https://camdiab.cdep.org.uk

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