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Insulin Pump Comparison

Insulin Pump Comparison						
Company	Animas® (a Johnson & Johnson Company)	Roche® Insulin Delivery Systems, Inc.	Insulet Corporation	Medtronic MiniMed, Inc.	Asante	Tandem
Model	OneTouch® Ping®	Accu-Chek Combo Spirit	OmniPod®	Minimed Paradigm® REAL-Time Revel™	Snap	T:Slim
Product Picture						
Details	<p>Waterproof, tested and proven for up to 12 feet for 24 hours</p> <p>Outstanding readability anywhere, anytime; Color Screen - Flat panel, high contrast</p> <p>Longer battery life - 5 to 7 weeks with lithium, with option to use alkaline</p> <p>Two-way information sharing - Bolus, basal setting and status information may be viewed on either device</p> <p>Discreet—pump can stay out of sight while you deliver a bolus; Remote bolus calculation and delivery from meter remote</p> <p>Option to control insulin delivery manually (pump) or wirelessly (meter-remote)</p> <p>Accurate, convenient database for carbohydrate counting of up to 500 food items in pump</p> <p>Smallest basal rate with the widest range of increments of 0.025, 0.675 or 1.075 u/hr for precise bolusing</p>	<p>Small and lightweight like a pager</p> <p>The largest insulin cartridge of any pump—315 units—means fewer changes</p> <p>Quick, accurate results free your time</p> <p>Requires only a small sample size</p> <p>Calculates your bolus doses—just enter carbohydrates and glucose readings</p> <p>Creates pie charts and other graphs to track your progress</p> <p>View pump screens on meter.</p> <p>Bluetooth technology enables meter to control pump</p> <p>Pump sends data to meter wirelessly</p> <p>Full color data display on pump and meter remote</p> <p>Choice of multiple user menus based on if you use general features to the more advanced features of the pump</p>	<p>No tubing to snag, tangle or drag around</p> <p>Watertight and durable, so you can bathe, swim and be as active as you like</p> <p>Delivers insulin based on your personalized settings from PDM (personal device manager)—what you ask for, when you ask</p> <p>Built-in insulin reservoir, angled infusion set, automated inserter, pumping mechanism and power supply</p> <p>Weighs just 1.2 ounces with a full reservoir—so comfortable you'll forget you're wearing it</p> <p>Takes insertion needles out of sight and pain out of the game</p> <p>Hands-free, automated insertion from PDM—and priming—minimizes hassles and errors</p> <p>1000 food items in database of PDM (not insulin pump)</p>	<p>Only insulin pump that is integrated with a continuous glucose monitor (separate item)</p> <p>Bolus wizard calculator simplifies insulin doses</p> <p>Basal rate as low as 0.025 u/hr</p> <p>Missed meal bolus reminder</p> <p>530G with Enlite features Threshold Suspend, which automatically stops insulin delivery when sensor glucose values reach a preset low threshold.</p>	<p>"Uses prefilled insulin cartridges, change every 7 days based on insulin dose</p> <p>Easy autoprimering</p> <p>Lightweight design</p> <p>Sensitive occlusion detection system</p> <p>Battery doesn't have to be replaced or recharged"</p>	<p>Color touch screen, flat reservoir design, thinner pump, rechargeable battery, micro USB, delivers smallest basal insulin increment</p>
Dimensions (in)	Pump: 2 x 3 x 0.88 Remote: 3.80 x 2.46 x 1.12	3.2 x 2.2 x 0.8	OmniPod®: 1.53" wide x 2.05" long x 0.57" high PDM: 2.5 x 4.5 x 1.0	723 / 751: 2 x 3.6 x 0.84 523 / 551: 2 x 3.3 x 0.82	3.8x1.72x0.75	3.13 x 2 x 0.6
Volume (in³, cc)	4.33 in³ 72 cc	N/A	N/A	723 / 751: 5.6 in³ 92 cc 523 / 551: 4.9 in³ 92 c	81.8	61.38
Reservoir Size	200 u	315 u	200 u	723 / 751: 300u or 176 u 523 / 551: 176 u	Prefilled 3 ml insulin cartridge (glass) (Humalog)	300 units
Infusion sets	Yes	Yes	Pods (no tubing)	Yes	Yes,proprietary	Yes, compatible with all standard, Luer-lock connectors
Weight (oz)	Pump: 3.1 oz Remote: 3.88 oz	2.8 (empty) 4 (with battery)	OmniPod®: 1.2 PDM: 4.4 (with battery)	723 / 751: 108 gms (with insulin) 523 / 551: 100 gms (with insulin)	2.9	3.95
Screen Size (mm²)	992 sq mm with screen backlight	N/A	PDM 1.4 in x 1.9 in	774 sq mm	774 sq mm	NA
Connection	Luer lock	Luer lock	N/A	Proprietary	Proprietary	Luer lock

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Colors	Pink Glow, Lighthouse, Blue, Silver, Black	Black (w/ 30 pump skins)	White	Clear, Smoke, Blue, Purple, Pink	black, red, blue	black with color touch screen
Basal Range	0.025 - 25 u/hr	0.1 - 25 u/hr	0.05 - 30 u/hr	0.025 - 35 u/hr	0, 0.1 to 4 units/hr	0.1 to 15 units/hr
Basal Rate Increments	0.025 u/hr	0.1 u/hr	0.05 u/hr	0.025 u/hr up to 1.0 u/hr	0.05 u/hr	0.001 u at programmed rates equal to or greater than 0.1 u/hr
Basal Rate Profiles	12 basal rates, 4 personalized profiles	24 basal rates, 5 personalized profiles	48 basal rates, 7 personalized profiles	48 basal rates, 3 personalized profiles	10 basal rates, 4 personalized profiles	total basals 16 per day, unique basal profiles 6
Basal Interval	30 minutes	60 minutes	30 minutes	30 minutes	15 minutes	1 minute
Basal Delivery	every 3 minutes	every 3 minutes	N/A	varies, 0.6 u/hr = every 10 mins.	1 unit every 3 minutes	every 5 minutes
Temporary Basal	-90–200% in increments of 10% for 0.5–24 hours (30 minute increments)	10% increments from 0–250% and 15-minute increments from 15 minutes–24 hours	+/- 100% in 25% increments available for up to 12 hours	+/- 0.1 u increment as single basal rate or as % of current basal for 0.5 to 24 hours	15 min to 24 hrs, in 15-min increments	15 minutes to 72 hours with 1 minute increments, resolution range: 0% - 250%
Bolus increments	0.05 visual or audio, 0.1, 1, 5 audio increments	0.1, 0.2, 0.5, 1, 2	0.05, 0.1, 0.5, 1 u increments	0.1 visual, 0.5 or 1 visual or audio, remote extra	0.05, 0.10, 0.25, 0.50, 1.00, 2.00, 5.00 units	0.01 at volumes greater than 0.05 units
Carbohydrate and correction factors	Yes, manual entry, assist from ez Manager Plus	Yes, manual carb, blood glucose from Accu-Check® Aviva Combo glucose monitor	Yes, assist from PDM	Yes, manual carb, blood glucose direct from One Touch Ultra Link glucose meter or manual entry	Yes, manual entry	Yes, with option for fractions of grams. 16 time segments per 24 hours.
Bolus type	Units or carbs: standard, extended, combination	Quick, scroll, extended, multiwave	Meal, correction, meal correction, normal, extended, combination	Units or carbs: standard, extended or combination	Units or carbs: standard, extended, combination	Insulin (units) or carb (grams), quick, extended
1 unit bolus duration	1 or 4 seconds	5 seconds	40 seconds	30 seconds	30 min to 5 hr in 15-min increments	>3 units 30 sec/unit , < or equal to 3 units 37 sec/unit
Waterproof	Up to 12 feet for 24 hours	Waterproof for up to 1 hour	Pods waterproof	Splash resistant	No	up to 3 feet for 30 minutes
Memory	600 bolus, 270 basals, 120 daily totals, 30 alarms, 60 primes	Nonvolatile: 90 days (4500 events); history recall of last 250 glucose readings, alerts, daily insulin totals, and temporary basal rate increases	90 days of data (up to 5400 records)	4000 events, volatile (basal and history loss can occur), 24 boluses, 7 day totals	90 days of data	90 days (11,000) events
Battery type	Piump - AA lithium preferred 1.5 V x 1 Meter Remote - AA alkaline x 2	AA x 1 alkaline or rechargeable	AAA x 2 (PDM)	AAA for pump, A23 for remote	Integrated in pump body - 1.5V AAA	Integrated, rechargeable lithium polymer battery
Battery life	5-7 weeks	4 weeks	4 weeks	3 weeks	10 days with typical use or 300 units insulin delivery	7 days with full charge
Alert conditions	Pump: Audio options: Low and high blood glucose, basal rate change, basal delivery suspended, no cartridge detected or suspended, low cartridge, low battery, insulin bolus exceeded, exceeds maximum daily insulin dose, exceeds maximum basal, no prime, occlusion, empty cartridge. Others: active basal program, temporary basal minimum rate, suspend, clear settings. Remote: low and high blood sugar readings, control solution reading out of range, inadequate sample size message, low battery notification, temperature error	Information retained when battery changed, multiple safety alarms such as occlusion alert, temporary basal rate over, or cancelled system error detection, key lock function	Auto-off, low reservoir warning, pod expiration, PDM lock, occlusion, PDM or pod error message	Auto-off, alarm clock, block feature restricts access to pump programming, lock key pad prevents accidental keypad presses, low battery, temporary basal delivery, no delivery, check settings, snooze feature that allows silencing of alarm when blood sugar is low while it is being corrected	Low insulin alert, missed insulin reminder, auto-off, glucose log target high and low, blocked set, check tubing connector, blood glucose prompt, delivery limit reached, detach and reconnect pump body, empty cartridge, daily alert, pump alert, for smart bolus audio bolus, pump body disconnected, pump damaged: wet, pump error detach and reconnect, settings mismatch, version mismatch, set time and date and system error.	Missed meal bolus reminder, after bolus reminder, high and low BG reminder, auto shut off, alarms - occlusion, empty cartridge, resume pump, low power, temperature, altitude, reset, malfunction
Language	English, Spanish and French	English, Spanish, French and 9 other languages	English	English, Spanish, French	English	English
Software, download	ez Manager Plus, Diasend, cradle and software available at Animas®	Accu-Chek 360 Diabetes Management system, Smart Pix device reader, insulin pump configuration software, infra-red wireless communication port for wireless data transfer	CoPilot Health Management System for PDM model UST400 Pathfinder Data Management System for first generation PDM	Medtronic CareLink Personal Therapy Management System	Diasend	T:Connect Diabetes Management Application, works with both Windows (except Windows 8) and Mac operating systems

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Features	One Touch® Ultra® Meter Technology remote capabilities, smallest basal rate adjustment, personalized carb and correction factors up to 12 personal settings, tracks residual bolus insulin, flat panel color screen, largest screen available but smallest pump, protected memory even if batteries removed, ez Carb calculates bolus amount to cover carbs in food eaten, food database of up to 500 food items in pump , ezBG automatically calculate correction bolus of insulin, insulin on board setting, customizable basal programs, sick day quick reference, personalize audio notification, waterproof, tamper proof buttons, integrated meter remote, use OneTouch Ultra Test Strips	Choice of standard, advanced or custom selectable user menus, icon and menu driven programming, backlit display, reversible display screen, audible or vibrating bolus confirmation and alerts, dual processors/redundant system, automatic prime, side-mounted, tactile buttons	Backlight, reminders and alerts in simple language, child lock, integrated FreeStyle meter, 1000 common foods in PDM, setup wizard, suggested bolus calculator, personalized ratios, factors, targets and presets, PDM stores and summarizes insulin delivery, can be held in pocket rather than belt, integrated angled infusion set with automated cannula insertion using PDM and no tubing Integrated glucose meter uses FreeStyle Test Strips	Contour Next USB glucose meter, vibration, backlight, extended bolus, Bolus wizard feature tracks active insulin based on active insulin time and subtracts appropriate insulin amount when blood glucose is above target ; feature prevents overcorrection for high glucose readings, integrated glucose meter uses Contour Next Test Strips , Minimed 530G has Threshold Suspend, which automatically stops insulin delivery when sensor glucose values reach a preset low threshold. Blood glucose target range 60 to 250 mg/dl, 8 maximum targets Warning limits less than 90 mg/dl or greater than 140 mg/dl Minimed Revel. Compatible with MiniMed's Real-Time Paradigm System or Enlite Sensors Minimed 530G Compatible with Enlite Only	4 years	4 years
Guarantee	4 years	4 years	4 years	4 years	Pump body, controller, user guide	Protective case with rotatable clip, USB cable, 6ft, wall power USB adapter, car power USB adapter, reference guide, emergency wallet card, USB memory card with user guide
Kit contents	Pump - Lithium AA battery, user guide and low profile clip Meter Remote - OneTouch Ultra Control Solution, OneTouch Lancing Device, OneTouch AST clear cap, OneTouch Ultra Soft Sterile Lancets, carrying case, 2 - 1.5v AA alkaline batteries, OneTouch Ultra Test Strips and USB cable.	Accu-Chek Aviva Combo meter, Ultraflex infusions sets (2-pack), Spirit 3.15 ml cartridge system, Spirit Combo service pack, meter accessories bag, FastClix lancet device, FastClix lancet drums, Combo clip case, user guides.	Personal diabetes manager, 2 OmniPods®, fill syringes, 2 AA batteries and user guide, carrying case, suline, USB cable and user guide	2 AA batteries, user guide, extra battery cover, battery cover tool, Medtronic CareLink Personal Therapy Management System and USB Carelink	Pump body, controller, user guide	t-clip vertical case, USB cable, wall power USB adapter, car power USB adapter, t-sim reference guide, emergency wallet card, USB memory card, cartridge removal tool.

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