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Technical Specifications

Product	Description	REF
K5	Wearable Metabolic System	C09090-01-99
Standard packaging	K5 unit, flowmeters (2pcs.), sampling line, masks (XS, S, M), headcaps (Petite/XS, S/M), harness, ANT® HR module, rechargable batteries (2 pcs.), battery charger, AC/ DC adapter, scrubber, earphones, adapters, SD card, carrying case, USB cable, OMNIA® Software, user manual	
Measurements		
Gas Exchange (standard)	CPET Breath by Breath	
Gas Exchange (optional)	CPET Mixing Chamber	
Hardware		
IP (Ingress Protection)	IP54 - dust and water splash protected	
Dimensions & Weight	174x111x64 mm / 750 g (900 g including battery)	
Display (LCD)	3.5", transflective, 320x240 pixel, 65K colors, LED-backlit, TFT	
Display (Touch-screen)	Resistive technology - allows gloves and wet fingers	
Keyboard	4 keys for main funcitons	
Harness	Ergonomic, adjustable to patient size	
Mount	Standard 1/4" 20 UNC screw thread	
Wireless Connectivity		
Telemetry (standard)	Bluetooth 2.1 + EDR Class II (range: 10 m line-of-sight)	
Telemetry (optional)	Long range Bluetooth 2.1 + EDR Class I (range: up to 1000 m line-of-sight)	
Navigation/Motion Sensors		
GPS	10Hz GPS/QZSS receiver - position accuracy 2.5 m, speed accuracy 0.1 m/s	
Altimeter	Barometric + GPS offset (altitude and grade)	
Gas Analyzers	Oxygen (0,)	Carbon Dioxide (CO ₃)
Туре	GFC	NDIR
Range	0-25%, optional 0-100%	0-10%
Response time t90	120 ms	100 ms
Accuracy	±0.02% Vol.	±0.02% Vol.
Flowmeter	Turbine 2000	
Туре	Bidirectional digital turbine	
Ventilation range	0-300 L/min	
Accuracy	±2% or 100 mL/min	
Resolution	12 mL	
Resistance	<0.6 cmH20/L/s @14L/s	
Power	1010 1111120, 210 (6 1 1210	
Power supply	Medical grade 100-240 AC/DC adapter for direct pov	wer supply and battery charging
Battery	Rechargeable Li-lon 7.2V, 3100 mAh, "Smart battery" w/ LCD charge status - 4 hours	
Dutte.)	autonomy, user replaceable	, 11, 222 (1141 92 314143 1 110413
Battery Charger	100-240 VAC	
Environment		
Pressure sensors	integrated barometer (-600 to +5500m), continuous monitoring of analysers pressure	
Temperature & Humidity sensors	4 integrated sensors (internal and external)	
CPU & data storage		
CPU	456 MHz w/ 128MB RAM	
Storage	512 MB flash (data storage and OS), up to 2.048.000 breaths	
Auxiliary memory	SD-HC card 32GB/FAT32 - internal user accessible slot (for data transfer/FW upgrade)	
Ports		
LOLES		
USB	USB-device (2.5 KV galvanic-isolated)	







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