DST centi-HRT ACT

	Generation 1	Generation 2
Sensors	Heart rate, activity (3-axes acceleration),	Heart rate, Activity (3-axes acceleration),
Size (Diameter x Length)	15mm x 46mm	15mm x 46mm
Housing Material	Alumina (Ceramic)	Alumina (Ceramic)
Weight (in Air/in Water)	19g/12g	19g/12g
Data Resolution	12 bit (Temperature), 13 bit (Acceleration)	12 bit (Temperature), 13 bit (Acceleration)
Acceleration Resolution	4mg	2mg
Temperature Range	5°C to +45°C (41°F to 113°F)*	5°C to +45°C (41°F to 113°F)*
Temperature Resolution	0.032°C (0.058°F)	0.032°C (0.058°F)
Temperature Accuracy	+/-0.2°C	+/-0.2°C
Memory Type	FLASH	FLASH
Memory Capacity	233,017 measurements per sensor	99,863 measurements per sensor (if all parameters are recorded simultaneously)
Memory Capacity Bytes	2,097,152 bytes / HR+T 3 bytes, acceleration 6 bytes (raw data)	2,097,152 bytes / HR+T 3 bytes, acceleration statistics 18 bytes
Measurement Interval	User specified in second(s), minute(s), or hour(s)	User specified in minutes or hours
Minimum Measurement Interval	15 seconds	1 minute (T+HR/T+ACT), 2 minutes (T+HR+ACT)
Multiple Intervals Option	Up to 7 different intervals	Up to 7 different intervals
Measurement Options (Primary/Secondary)	ACT OR T+HR+ACT	T+HR OR T+ACT OR T+HR+ACT
Heart Rate (HR): ECG Sampling Frequency	80-800Hz	80-800Hz
Duration of HR Measurement	600 ECG samples	600 or 1500 ECG samples
Activity (ACT): Accelerometer Sampling Frequency	0.03Hz-1Hz	0.03-10Hz
Duration of ACT Measurement	1 sample	1 minute
Data Retention	25 years	25 years
Clock	Real time clock. Accuracy +/-1 min/month.	Real time clock. Accuracy +/-1 min/month.
Communications	Communication Box	Communication Box
Attachment Hole	0.9 mm (diameter)	0.9 mm (diameter)
Battery Life	19 months**	2-17 months**
Replaceable Battery	No	No

*Outside ranges available upon request **For sampling interval of 10 minutes; heart-rate activity (1 sample) and temperature recorded simultaneously.

**For sampling interval of 2-20 minutes; ECG sampled at 600Hz, Activity 1Hz over 1 minute. Battery is non-replicable and non-rechargeable.