

DST centi-ACT

Generation 1

Generation 2

Sensors	Activity (3-axes acceleration), temperature	Activity (3-axes acceleration), temperature
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	4 mg	2 mg
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 (0.36°F)	+/-0.2°C (0.36°F)
Memory Type	FLASH	FLASH
Memory Capacity	279,620 measurements per sensor (if all parameters are recorded simultaneously)	104,856 measurements per sensor (if all parameters are recorded simultaneously)
Memory Capacity Bytes	2,097,152 bytes / temperature 1.5 bytes, acceleration 6 bytes (raw data)	2,097,152 bytes / temperature 2 bytes, acceleration statistics 18 bytes
Measurement Interval	User specified in second(s) minute(s), or hour(s)	User specified in second(s) minute(s), or hour(s)
Minimum Measurement Interval	1 second	2 minutes
Multiple Intervals Option	Up to 7 different intervals	Up to 7 different intervals
Measurement Options (Primary/Secondary)	T OR ACT OR T+ACT	T OR T+ACT
Activity (ACT): Accelerometer Sampling Frequency	0.03Hz-1Hz	0.03Hz-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, wireless transmission when DST is placed in the box. Connection to PC: USB cable.	Communication Box, wireless transmission when DST is placed in the box. Connection to PC: USB cable.
Attachment Hole	0.9 mm (diameter)	0.9 mm (diameter)
Battery Life	3 years**	3-26.5 months**
Replaceable Battery	No	No