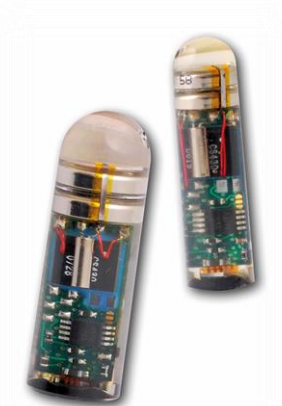


G5 Standard & G5 Long-Life Data Storage Tags



Overview

The G5 DST is one of the smallest, lightest, and most reliable data loggers for animal behaviour research available today. The light weight and ultra-small size help to ensure that tagged fish, birds or animals behave as naturally as possible. This means that tagging studies can be carried out on a wide range of species, opening new fields of research.

These tags allow users to log data at resolutions of up to 12-bit; and can record over 25 million readings (depending on memory configuration, see table below) from its temperature, pressure and wet/dry (optional) sensors over the life of the battery. It features independent pressure and temperature logging, allowing for flexible programming.

If your research involves studying diving birds and mammals, you may be interested in our Dive Logging option. The wet switch/ depth threshold activation allows a pre-set fast-logging mode to be activated when the animal enters the water so that high temporal resolution dive profiles can be measured whilst retaining as much memory as possible for further dives/ time series data.

Robustness and reliability of Cefas Technology Limited products comes as standard. Please see below for a full technical specification.

Key Features	G5 Standard			G5 Long-Life		
Dimensions	8mm x 31mm			12mm x 36.5mm		
Weight in Air (in seawater)	2.7g (1.3g)			6.5g (2.5g)		
Memory						
Memory Options	2MB		8MB	24MB		
Typical Logging Rates <i>Logging both temperature & pressure @ 12-bit resolution</i>	Logging rate	Time to fill memory (days)				
		2MB	8MB	24MB		
	0.1 seconds ¹	0.5	3	9		
	1 second	7	32	97		
	10 seconds	78	323	>730 ²		
60 seconds	>300	>730 ²				
Number of deployments possible ³	2		3	1		
Depth Sensing						
Pressure Sensor Options	10, 20, 50, 100 or 200 bar					
Max Depth Before Pressure Sensor Failure	1.5 x Full Scale					
Accuracy (at 12-bit setting)	±1% of Full Scale					
Resolution (at 12-bit setting)	10 bar sensor	20 bar sensor	50 bar sensor	100 bar sensor	200 bar sensor	
	Better than 4cm	Better than 8cm	Better than 15cm	Better than 30cm	Better than 60cm	
Temperature Sensing						
Calibrated Temperature Range ⁴	2°C to 34°C					
Accuracy (in calibrated range, at 12-bit setting)	±0.1°C					
Typical Temperature Response Time (% of temperature change from 5°C to 30°C)	G5 Standard			G5 Long-Life		
	66%	90%	100%	66%	90%	100%
	20 seconds	38 seconds	99 seconds	47 seconds	94 seconds	304 seconds
Operating Temperature	-2°C to 40°C					
Absolute Temperature Range	-10°C to 60°C					
Resolution (at 12 bit setting)	0.03125°C					
Time Series Data Points						
Number of Data Points at User Defined Resolution (at 12-bit setting)	2MB		8MB	24MB		
	1.354M		5.55M	16.8M		

Dive Logging Option Features	
Fast Logging Rates	1Hz; 2Hz; 4Hz; 5Hz; 7Hz; 10Hz
Wet/Dry Sensor	Optional
Additional Specifications	
Casing	Acrylic / Urethane
Battery Chemistry	Silver
Interface	Connected via CTL USB Interface
Data Output	CSV Format (MS Excel etc)
Software	DST Host – Windows OS (up to & including Windows 10)

Notes :

1. Logging at 10Hz unconditional fast-logging rate. Tags must have Dive-Logging feature activated to achieve this rate.
2. Limited by battery life expectancy
3. Under normal operating conditions and based on logging continuously over 30 days; 2MB memory = 4 second rate, 8MB memory = 1 second rate, 24MB memory = 0.3 second rate
4. Accuracy degrades outside this range. Pressure readings are temperature compensated within this range.

Specifications mentioned in this document are subject to change without notice. This publication supersedes and replaces all information previously supplied



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