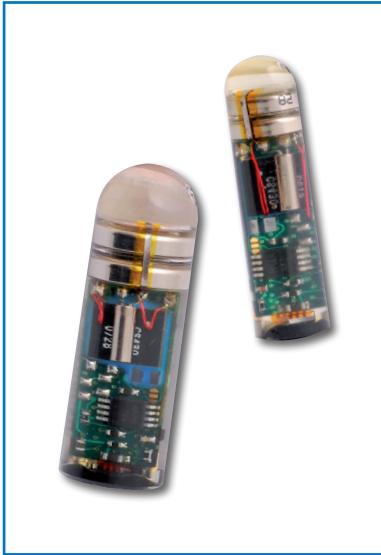


Cefas G5 Data Storage Tag

Product leaflet



G5 / G5 Long Life

- ▶ **pressure and temperature sensors**
- ▶ **small and lightweight (weighs 1g in water)**
- ▶ **up to 2MB memory**
- ▶ **optional dive logging**
- ▶ **logging rates up to 10Hz**
- ▶ **optional float**
- ▶ **up to 2 years' battery life**

Overview

Our Cefas Data Storage Tags (DST) are a result of over 20 years of DST development and expertise at Cefas. The tags have been developed by our in-house Applied Technology team in close conjunction with the Fisheries Scientists. With this combination of technical expertise and scientific experience the tags are designed to meet the needs of scientists involved with behavioural research.

The tags are market-leading products offering considerable advantages over other tags, both in capability and price. We provide complete customer support from technical sales advice through to application and data interpretation.

Cefas G5

Launched in 2005, the Cefas G5 is much smaller and lighter than previous generations of DST, yet has a much larger memory capacity. The weight reduction helps to ensure that tagged fish, birds or animals behave as naturally as possible. This means that tagging studies can be carried out on a wider range of species, opening up new fields of research. The tag is capable of taking up to two million readings from its pressure or temperature sensors over the life of the battery, allowing it to log data at a greater resolution than other tags.

DST users want greater programming flexibility, so key features of the G5 are its independent pressure and temperature settings. Repeat Logging allows users to configure short bursts of data logging over an extended period of time.

If your research involves studying diving birds and mammals, you will be interested in our Dive Switch and Fast Logging Rate option. The Dive Switch allows the Fast Logging Rate to be activated when the animal enters the water so that dive profiles can be measured.

- ▶ Fast Logging at rates down to 0.1 seconds
- ▶ Fast Logging Rate activated by entry into water
- ▶ deactivated by removal from water / return to surface
- ▶ operates in fresh water and seawater.

Robustness and reliability of the Cefas tag technology comes as standard. Please see overleaf for a full technical specification.

Contact us

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Specification	Cefas G5 Standard 1MB / 2MB	Cefas G5 Long Life 1MB / 2MB
Diameter	8mm	11.5mm
Length	31mm	35.5mm
Weight in Air	2.7g	5.7g
Weight in Seawater	1.3g	2.25g
Depth Sensors ¹	100, 200, 500, 1000, 2000m	
Absolute Max Depth	3000 m	
Operating Temperature	-2°C to 40°C	
Absolute Temp Range	-10°C to 60°C	
Maximum number of readings at 8 bit resolution	1.036M / 2.031M	
Battery Life ²	10 months	24 months
Multiple 30 day memory fill	3	10
Rate of logging	Up to 1 hour at 1 second resolution Up to 18 hours at 1 minute resolution	
Optional Dive Logging / Water Switch	10Hz; 5Hz; 4Hz; 2Hz	

Additional specifications

Physical parameters	
Casing	Acrylic / Urethane
Real time clock	
Temperature Compensated	Yes 2°C to 34°C, User settable
Memory	
Type Flash	1MB / 2MB
Time series data points	
at 8 bit resolution	1.036M / 2.031M
at 10 bit resolution	832k / 1.625M
at 12 bit resolution	693k / 1.354M
Delayed Start of Logging	Yes
Data retention	10 years
Summary Log	Daily record of max / min parameters
Communications rate	115.2k baud
Other	
Battery Chemistry	Silver
Communication	Direct Contact
Depth sensing	
Accuracy ³	±1% Full Scale at 12 bit ADC
Resolution	100m sensor Better than 4cm 200m sensor Better than 8cm 500m sensor Better than 15cm 1000m sensor Better than 30cm 2000m sensor Better than 60cm
Temperature Compensated ³	Yes, 2°C to 34°C
Maximum depth before pressure sensor failure	1.5 X Full Scale
Temperature Sensing	
Accuracy	±0.1°C at 12 bit ADC Range ³ 2°C to 34°C
Resolution	0.03125°C
Response Time ⁴	28 seconds
Required Peripherals	
Reader	Connected via serial port or USB serial adaptor
Data Output	CSV format (MS Excel etc.)
Software	G5 Host – Windows OS