

## Saga-P real-time data logger specifications (1/2)

### General Overview

Product name	Saga
Model name	Saga-P
Dimensions	25 mm × 61 mm × 98 mm
	0.98 in × 2.40 in × 3.86 in
Weight	194 g
	6.84 oz
Housing	ABS plastic enclosure
Available information	Temperature, geographical location, battery status, light events
Ingression protection rating	IP54
Flight detection	Yes
Display	Yes, E-ink

### Calibration

Calibration points	See probe datasheet
Calibration Accuracy	See probe datasheet
Calibration certificate	Available upon request

### Technical data

Battery type	Rechargeable NiMH battery, 2500mAh
Nominal energy	9 Wh
Battery life	Device transmits data for 20 to 110 days on a single charge, depending on cloud reporting interval, as detailed on page 2.
Internal memory	Storage capacity of 150 days of temperature measurements (when recorded at 10-minute intervals)
Charging	Via attached USB cable
Backup data download	Via attached USB cable
Cellular network type	2G, 3G and 4G (LTE)
Cellular coverage	Global

### Measurement data

Measurement interval Sampling rate	10 minutes
Data reporting	The device needs to wake up and establish a connection to upload measurement data to the Controlant cloud.
Wake-up schedule	Adjustable from 1h to 12h frequency. The device wakes up when an excursion triggers an alarm, regardless of the schedule.
Standard operating temperature range	<b>Logs temperature:</b> Yes <b>Cloud connection:</b> Can be established <b>Battery life:</b> Normal <b>Display:</b> Fully functional (above 0°C) -20°C to +50°C
Limited operating temperature ranges	<b>Logs temperature:</b> Yes <b>Cloud connection:</b> Disabled below -20°C <b>Battery life:</b> Reduced <b>Display:</b> Not functional +50°C to +70°C
Resolution	0.1°C

### Certifications and approvals

Approvals	CE, FCC, IC, NOM, KC
Aviation compliance	IATA, FAA and EASA

# Saga-P real-time data logger specifications (2/2)

### Battery type

The device is powered by a rechargeable NiMH battery, 2500mAh. NiMH batteries are not considered dangerous goods. The battery lifecycle is at least 300 charge cycles.

### Battery life

A fully charged device on a 12-hour wake-up interval can be expected to upload data and report alarms for at least 110 days while monitoring an active shipment within the operating temperature range.

The device enters hibernation mode when the battery level reaches 5% or less, at which stage it stops attempting to connect to the Controlant cloud. In hibernation mode, it still records data and stores it in its internal memory until the battery is depleted or the device is recharged.

The battery life depends on the set wake-up interval, as shown in the table below.

Wake-up interval	Battery life
1 hour	20 days
2 hours	35 days
3 hours	45 days
6 hours	75 days
12 hours	110 days

