

# **Saga Arctic**

General overview	
Product name	Saga
Model Name	Saga
Model Type	Arctic
Dimensions	25mm × 61mm × 98mm
	0.98in × 2.40in × 3.86in
Weight	170g
	6oz
Housing	ABS plastic enclosure
Available information	Temperature, geographical location, battery status, light events
Ingression protection rating	IP55
Flight detection	Yes
Display	Yes, E Ink
Calibration	
Calibration points	-30°C ±1.0°C
	+5°C ± 0.5°C
	+30°C ± 1.0°C
Calibration accuracy	<b>±0.5°C</b> at -10°C to +10°C
Cambration accuracy	10.3 C at 10 C to 10 C
Cambration accuracy	±1°C at +10°C to +30°C
Cambration accuracy	
Calibration certificate	<b>±1°C</b> at +10°C to +30°C
Calibration	<b>±1°C</b> at +10°C to +30°C <b>±1°C</b> at -30°C to -10°C
Calibration certificate	<b>±1°C</b> at +10°C to +30°C <b>±1°C</b> at -30°C to -10°C
Calibration certificate  Technical data	±1°C at +10°C to +30°C  ±1°C at -30°C to -10°C  Available upon request  Rechargeable NiMH battery,
Calibration certificate  Technical data  Battery type	±1°C at +10°C to +30°C  ±1°C at -30°C to -10°C  Available upon request  Rechargeable NiMH battery, 1200 mAh
Calibration certificate  Technical data  Battery type  Nominal energy	±1°C at +10°C to +30°C  ±1°C at -30°C to -10°C  Available upon request  Rechargeable NiMH battery, 1200 mAh  4.3 Wh  Device transmits data for 10–55 days on a single charge, depending on cloud reporting interval, as detailed
Calibration certificate  Technical data  Battery type  Nominal energy  Battery life	±1°C at +10°C to +30°C  ±1°C at -30°C to -10°C  Available upon request  Rechargeable NiMH battery, 1200 mAh  4.3 Wh  Device transmits data for 10–55 days on a single charge, depending on cloud reporting interval, as detailed on page 2.  Storage capacity of 150 days of temperature measurements (when
Calibration certificate  Technical data  Battery type  Nominal energy  Battery life  Internal memory	±1°C at +10°C to +30°C  ±1°C at -30°C to -10°C  Available upon request  Rechargeable NiMH battery, 1200 mAh  4.3 Wh  Device transmits data for 10–55 days on a single charge, depending on cloud reporting interval, as detailed on page 2.  Storage capacity of 150 days of temperature measurements (when recorded at 10-minute intervals).
Calibration certificate  Technical data  Battery type  Nominal energy  Battery life  Internal memory  Charging  Backup data	±1°C at +10°C to +30°C  ±1°C at -30°C to -10°C  Available upon request  Rechargeable NiMH battery, 1200 mAh  4.3 Wh  Device transmits data for 10–55 days on a single charge, depending on cloud reporting interval, as detailed on page 2.  Storage capacity of 150 days of temperature measurements (when recorded at 10-minute intervals).  Via attached USB-A cable
Calibration certificate  Technical data  Battery type  Nominal energy  Battery life  Internal memory  Charging  Backup data download	±1°C at +10°C to +30°C  ±1°C at -30°C to -10°C  Available upon request  Rechargeable NiMH battery, 1200 mAh  4.3 Wh  Device transmits data for 10–55 days on a single charge, depending on cloud reporting interval, as detailed on page 2.  Storage capacity of 150 days of temperature measurements (when recorded at 10-minute intervals).  Via attached USB-A cable  Via attached USB-A cable
Calibration certificate  Technical data  Battery type  Nominal energy  Battery life  Internal memory  Charging  Backup data download  Cellular network type	±1°C at +10°C to +30°C  ±1°C at -30°C to -10°C  Available upon request  Rechargeable NiMH battery, 1200 mAh  4.3 Wh  Device transmits data for 10–55 days on a single charge, depending on cloud reporting interval, as detailed on page 2.  Storage capacity of 150 days of temperature measurements (when recorded at 10-minute intervals).  Via attached USB-A cable  Via attached USB-A cable  2G, 3G and 4G (LTE)

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Measurement data	
Measurement	

Measurement interval Sampling rate	10 minutes	
Data reporting	Device needs to wake up and establish a connection to upload measurement data to the Controlant cloud.	
Wake-up schedule	Adjustable from 1h to 24h frequency. Device wakes up when excursion triggers alarm, regardless of schedule.	
Standard operating temperature range Logs temperature: Yes Cloud connection: Can be established Battery life: Normal Display: Fully functional (above 0°C)	-30°C to +30°C	
Limited operating temperature ranges Logs temperature: Yes Cloud connection: Disabled below -30°C Battery life: Reduced Display: Not functional	-35°C to -30°C	
	+30°C to +50°C	
Resolution	0.1°C	
Long-term drift Estimate at mid-range temperature	<0.1°C / year	
Contifications and annually		

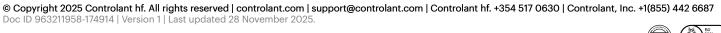
### **Certifications and approvals**

Approvals

Aviation compliance	IATA, FAA and EASA
Manufacturer	
Name	Controlant hf.
Address	Smáratorg 3,

201 Kópavogur, Iceland

CE, FCC, IC, NOM, KC





## **Saga Arctic**

Tailored for frozen pharmaceutical shipments, and designed for short to medium-haul logistics.

With a calibrated range of -30°C to +30°C, Saga Arctic ensures precise temperature tracking, robust connectivity, and compliance with regulatory standards. It safeguards the stability of highly sensitive, high-value medicines by detecting even minor temperature deviations that could lead to significant losses.

#### **Battery type**

The device is powered by a rechargeable NiMH battery, 1200 mAh. NiMH batteries are not considered dangerous goods. The battery life cycle is at least 70 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 55 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 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.

<b>Wake-up interval</b> 1 hour	Battery life 10 days
2 hours	17 days
3 hours	22 days
6 hours	37 days
12 hours	55 days
24 hours	>55 days



