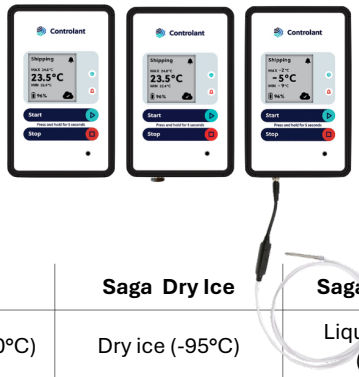
Controlant

# Saga device comparison



| Model type | **Saga Standard** | **Saga P-Standard** | **Saga Arctic** | **Saga Dry Ice** | **Saga Cryogenic** |
|---|---|---|---|---|---|
| Use Case | Cold and ambient | Cold and ambient | Deep freeze (-30°C) | Dry ice (-95°C) | Liquid nitrogen (-200°C) |
| Probe | N/A | N/A | N/A | PR-T80 | PR-T80 |
| Standard operating temperature range | **+50°C<br>-20°C** | **+50°C<br>-20°C** | **+30°C<br>-30°C** | **+50°C<br>-95°C** | **+50°C<br>-200°C** |
| Standard temperature calibration points (calibrated to NIST traceable standard) | Device:<br>+50°C<br>+15°C<br>-20°C | Device:<br>+50°C<br>+15°C<br>-20°C | Device:<br>+30°C<br>+5°C<br>-30°C | Probe:<br>0°C<br>-40°C<br>-80°C | Probe:<br>0°C<br>-40°C<br>-80°C<br>-196°C |
| Temperature accuracy | **±0.5°C**<br>at -10°C to +45°C<br><br>**±1°C** outside that range | **±0.5°C**<br>at -10°C to +45°C<br><br>**±1°C** outside that range | **±0.5°C**<br>at -10°C to +10°C<br><br>**±1°C** outside that range | **±1.0°C** | **±1.4°C**<br>at -200°C to -90°C<br><br>**±1°C** outside that range |
| Resolution | 0.1°C | | | | |
| Long term drift | <0.1°C per year | | | | |
| Temperature data recording interval | 10 mins, fixed | | | | |
| Upload interval / battery life (hours between upload - expected battery life) | 1h – 20 days<br>2h – 35 days<br>3h – 45 days<br>6h – 75 days<br>12h – 110 days<br>24h – >110 days | 1h – 20 days<br>2h – 35 days<br>3h – 45 days<br>6h – 75 days<br>12h – 110 days<br>24h – >110 days | 1h – 10 days<br>2h – 17 days<br>3h – 22 days<br>6h – 37 days<br>12h – 55 days<br>24h – >55 days | 1h – 20 days<br>2h – 35 days<br>3h – 45 days<br>6h – 75 days<br>12h – 110 days<br>24h – >110 days | 1h – 20 days<br>2h – 35 days<br>3h – 45 days<br>6h – 75 days<br>12h – 110 days<br>24h – >110 days |
| Battery capacity | 2500 mAh | 2500 mAh | 1200 mAh | 2500 mAh | 2500 mAh |
| Battery type | Rechargeable NiMH, battery life of at least 70 charge cycles, not considered dangerous goods | | | | |
| Data storage | Device can store >150 days of temperature measurements, or 21,600 data points at 10 minute intervals | | | | |
| Charging/ backup data retrieval | Via attached USB-A cable | | | | |
| Real-time monitoring and alarm | In case temperature goes outside configured boundaries, device will attempt to connect unless in flight mode or low power mode | | | | |
| Light sensor | Significant changes in light intensity trigger alert notifications | | | | |
| Display | E Ink display showing alarm status, current temperature and min + max temperature during shipment | | | | |
| Multi use | Devices are constructed from responsibly sourced materials and designed for extended durability | | | | |
| Certified for flights | Automatic flight mode - approved by over 200 airlines | | | | |
| Location tracking | Location tracked for each data upload using cellular triangulation and WiFi detection via 2.4Ghz WPS (receive only) | | | | |
| Geofencing | Radius configurable from 250 m to 15 km per location | | | | |
| Network capability | Global - 4G (LTE), 3G, or 2G | | | | |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