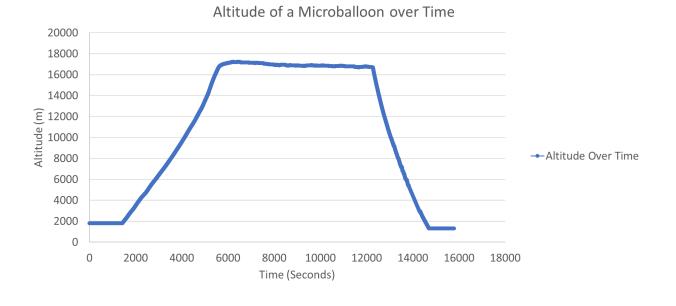
USKY-12-85-3.2

Patents issued and pending.

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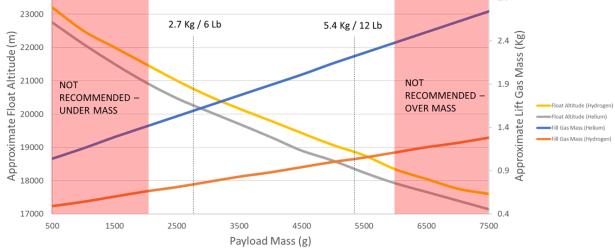
Specifications

- Fully Inflated (maximum) volume: $85m^3$
- Lift capacity: 2.0 Kg(min) 6.0 Kg(max)
- Gore length (uninflated length): 9m
- Float Altitude: 18,000m-21,500m
 - Float altitude depends on lift gas type and hook-on mass. See chart below.
- Total balloon system mass (not including payload): 3.8Kg 4.2Kg
- Fully Inflated Width: 5.1m, Height: 5.5m
- Command and control capabilities:
 - Live tracking
 - Remotely commanded termination
 - Remotely settable geofence (redundant systems)
 - Live health monitoring including alerts
- Compatible lift gasses: Helium, Hydrogen*, Trimix 90 (90% Helium, 7.5% Argon, 2.5% CO2)
 - *Hydrogen is a dangerous flammable gas and should only be used by experienced operators taking appropriate precautions to avoid air mixing and ignition sources.
- Altitude stability performance: -0.1m/s -0.5m/s
 - The expected rate of altitude loss at float for a new envelope
 - See a typical altitude profile below



• Max achievable float altitude and required lift gas for various payload masses:

Expected Approximate Float Altitude and Required Fill Masses for Various Payload Masses and Lift Gasses (Helium or Hydrogen) For the USKY-3.2-12-85 Microballoon



• Mechanical interface: Urban Sky balloons come with a standard mechanical interface as shown in the interface control document below.

