



TYPE-CERTIFICATE DATA SHEET

NO. EASA.BA.500

for

LTL-TGB

Type Certificate Holder
LINDSTRAND TECHNOLOGIES Ltd.

Unit 11
Maesbury Road
Oswestry SY10 8GA
UNITED KINGDOM

For models: 197-T (PTB)



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SECTION A: MODEL A DESIGNATION

A.I. General

- | | | | |
|----|--------------------------|-------------|--|
| 1. | Data Sheet No: | EASA.BA.500 | Issue Date: 30 October 2019 |
| 2. | Type / Variant or Model | | |
| | (a) Type: | | LTL-TGB |
| | (b) Variant or Model: | | Refer to Section 2 |
| 3. | Airworthiness Category: | | Normal |
| 4. | Type Certificate Holder: | | LINDSTRAND TECHNOLOGIES LTD.
Unit 11
Maesbury Road
Oswestry SY10 8GA
UNITED KINGDOM |
| 5. | Manufacturer: | | LINDSTRAND TECHNOLOGIES LTD.
Unit 11
Maesbury Road
Oswestry SY10 8GA
UNITED KINGDOM |
| 6. | EASA Certification date: | | 30 October 2019 |

A.II. EASA Certification Basis

- | | | |
|----|---|--|
| 1. | Reference Date for determining the applicable requirements: | 10.04.2018 |
| 3. | Airworthiness Requirements: | EASA CS-31TGB Amendment 1 (1 July 2013), |
| 4. | Special Conditions: | None |
| 5. | Reversion and Exemptions: | None |
| 6. | Equivalent Safety Findings: | None |



A.III. Technical Characteristics and Operational Limitations

1. Type Design Drawing: Refer to Table 1 column headed "General Assembly Reference"
2. Description: Manned tethered gas balloon for passenger transport.
- 2.1. Envelope
Aerodynamic profiled fabric envelope. The envelope consists of multiple horizontal gores. Ballonet volume equates for 20% of the total volume. Refer to Table 1 column headed "Volume" for total volume.
- 2.2. Gondola
Of stainless steel construction consisting of PVC or Wicker side walls with a safety mesh covering all openings.
3. Equipment:
- 3.1. Envelope
1 Helium Valve
1 Ballonet Valve including Pressure Transducer
1 Ballonet Pressure Relief Valve
2 Fin Fans
1 Lightning Strike Pole
1 Anemometer
1 Helium Temperature Probe
1 Ballonet Pressure Transducer & Display
1 Ambient Temperature Probe & Display
1 Set of Internal Light (Optional)
- 3.2. Gondola
1 Control Box including displays and functions of items described in section 3.1.
1 Power system which may consist of battery and/or generator power.
Navigation lights
4. Ground Facilities
Lindstrand Technologies winch WI-401: Electric motor driven cable winch as the ascent/descent device. Auxiliary drive for recovery fitted to the winch drum. For cable lengths refer to Table 1 column headed "Cable Length".
5. Minimum Occupants
None (pilot is ground-based).
6. Maximum Occupants
Refer to Table 1 column headed "Occupants".
7. Maximum Mass:
Refer to Table 1 column headed "Maximum Mass".
8. Maximum Windspeed:
15.4 m/sec (30 knots, 55 km/h) for flight operations,
The aerostat is to be hangered if no flight operations are conducted.
9. Minimum Crew:
Refer to product flight manual.
10. Life Limit Parts:
Refer to product maintenance manual.
11. Lifting Gas:
Helium.



A.IV. Operating and Service Instructions

1. Lindstrand Technologies Flight Manual and Supplements - Issue 1 or later approved EASA revision. See Section 2, Table 1, column headed "FM Ref"
2. Lindstrand Technologies Maintenance Manual and Supplements - Issue 1 or later approved EASA revision. See Section 2, Table 1, column headed "MM Ref"

A.V. Notes

Note 1 Repairs and replacement of the tether system require a re-evaluation of the compliance declaration in accordance with 31TGB.53

Lindstrand Technologies Type LTL-TGB Aerostats.

The definition of all variants (models) is listed in Table 1.

Table 1 Definitions, Limitations and Information

LTL-TGB Model	General Assembly Reference	Volume (m³)	Cable Length (m)	Maximum Mass (kg)	Maximum Occupants	FM Ref:	MM Ref:
197-T (PTB)	GA-032-A-001	5600	400	3327	0	197-TFM	197-T EGMM 197-T WOMM

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