

Civil Aviation Authority United Kingdom



TYPE-CERTIFICATE DATA SHEET

UK.TC.BA.00132

for
LTL-TGB

Type Certificate Holder
Lindstrand UK Ltd

Unit 11, Mile Oak Industrial Estate
Maesbury Road
Oswestry SY10 8GA
UNITED KINGDOM

UK.21J.1023

Model(s): 197-T (PTB)
Issue: 1
Date of issue: 27 October 2025

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Section 1 LTL-TGB**I. General****1. Type / Variant / Model**

- a) Type: LTL-TGB
b) Variant or Model: Refer to Section 1, part V, Table 1

2. Type Certificate Holder

LINDSTRAND UK LTD
Unit 11, Mile Oak Industrial Estate
Maesbury Road
Oswestry
SY10 8GA
UNITED KINGDOM

3. Manufacturer

LINDSTRAND INDUSTRIES LTD
Unit 11, Mile Oak Industrial Estate
Maesbury Road
Oswestry
SY10 8GA
UNITED KINGDOM

4. Airworthiness Category

Normal

5. Certification Date (by EASA)

30 October 2019

II. Certification Basis**1. Reference date for determining the applicable requirements**

10.04.2018

2. Airworthiness Requirements

CS-31TGB Amendment 1 (1 July 2013)

3. Special Conditions

None

4. Exemptions

None

5. Equivalent Safety Findings

None

III. Technical Characteristic and Operating Limitations**1. Type Design Definition**

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, Pressure Transducer and Display

1 Ballonet Valve, Pressure Transducer and Display

2 Fin Fans, Pressure Transducers and Displays

1 Lightning Strike Pole

1 Anemometer

1 Helium Temperature Probe and 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.

IV. Operating and Service Instructions**1. Flight Manual**

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

2. Maintenance Manual

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

V. Definitions, Limitations and Information**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

VI. Notes**Note 1**

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

Section 2 Administration**I. Acronyms and Abbreviations**

Acronym / Abbreviation	Definition
TC	Type Certificate
TCDS	Type Certificate Data Sheet
TCH	Type Certificate Holder

II. Type Certificate Holder Record

TCH Record	Period
Lindstrand UK Ltd Unit 11, Mile Oak Industrial Estate Maesbury Road Oswestry SY10 8GA UNITED KINGDOM	Since 27 October 2025
Lindstrand Technologies Ltd Unit 11, Mile Oak Industrial Estate Maesbury Road Oswestry SY10 8GA UNITED KINGDOM	30 October 2019 – 27 October 2025

III. Amendment Record

TCDS Issue No.	TCDS Issue Date	Changes	TC Issue and Date
1	27 Oct 2025	Initial CAA issue, Lindstand UK Ltd new TCH	Issue 1 27 Oct 2025

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