DESIGN AUTHORIZATION DATA SHEET Nº ERPAS-7950475

Authorization Holder:

XMOBOTS AEROESPACIAL E DEFESA LTDA
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ERPAS-7950475-01
Sheet 01

XMOBOTS

NAURU 500C,
NAURU 500 ISR

07 MAR 2023

This data sheet, which is part of Design Authorization Process nº 00066.010521/2020-62, prescribes conditions and limitations under which the product, for which the Design Authorization was issued, meets the requirements of the Brazilian Special Aeronautical Regulation RBAC-E nº 94, Amdt. 00, Subpart E.

Models NAURU 500C and NAURU 500 ISR.

I – Nauru 500C, approved in 29 November 2022
II – Nauru 500 ISR, approved in 07 March 2023

RPAS

This is a Remotely Piloted Aircraft System (RPAS) that is comprised of the Remote Piloted Aircraft (RPA), a Remote Pilot Station (RPS), and other support equipment.

RPA

Type:	Monoplane fixed-high wing aeroplane, normally aspirated engine pusher configuration, skid landing gear and electrical vertical takeoff and landing system.	
Wingspan:	3,64 m (11,94 ft).	
Length:	1,86 m (6,10 ft).	
Height:	0,73 m (2,4 ft).	
Empty weight:	18,5 kg (40,78 lb).	
MTOW:	25 kg (55,11 lb).	
Maximum payload weight:	2 kg (4,4 lb).	
Maximum operating altitude:	1.886 m (6.187 ft).	
Airspeed limits:	V_{MAX} (See NOTE 5)	36 m/s (70 KIAS).
	V_{MIN} (See NOTE 5)	18,9 m/s (36,7 KIAS).
	$V_{NOMINAL}$ (See NOTE 5)	25 m/s (48,6 KIAS).

C2 LINK (RPA)

XMobots NAURU 60X5000 Air Data Terminal (ADT).
PN: 8500060.
ANATEL Homologation Certificate: 16586-22-02497.
Demonstrated C2 range: 60 km (32,4 NM) from Ground Data Terminal (GDT).

RPS

XMobots Hard Lock Keys for GCS operation PN: 8000153.
Type: Ground Control Station software for flight planning (XPlanner) and flight execution (XCockpit).

Flight planning:

Manufacturer: XMobots.
Model: XPlanner.
Flight execution:
Manufacturer: XMobots.
Model: XCockpit.
RPS software version: 304.13.0 or later.

For model Nauru 500 ISR: Available as part of shelter in towed (PN 8610070) and van (PN 8610071) versions.

C2 LINK (RPS)

XMobots GDT 60X5000 Ground Data Terminal (GDT).
PN: 3200706.
ANATEL Homologation Certificate: 16587-22-02497.

SUPPORT EQUIPMENT

A VHF radio communicator (aeronautical band) is required for flights above 122 m (400 ft).

FLIGHT LIMITATIONS

1. Daylight in visual meteorological conditions (VMC), segregated airspace.
2. Visual Line Of Sight (VLOS) up to 2 km (1.08 NM) from PIC or observer and Extended Visual Line Of Sight (EVLOS) up to 5 km (2.7 NM) from PIC with the use of observers.
3. Beyond visual line of sight (BVLOS) up to 60 km (32,4 NM) from GDT.
4. Operation is permitted in non-urban areas.
5. The safety for urban operations has not been demonstrated.
6. Simultaneous operation of multiple RPA by a single remote pilot is prohibited.

SERIAL NUMBERS APPROVED

15 and following.

AUTHORIZATION BASIS

Brazilian Special Aeronautical Regulation RBAC-E nº 94, Amdt. 00, Subpart E, dated 2 May 2017.

MANUALS

For model Nauru 500C:
1. System Flight Manual (SFM) No. ReD-CER-FW25-SFM_ Rev. A2.0-20221121 or later
2. Maintenance and Inspection Manual (MIM) No. ReD-CER-FW25-MIM Rev. A0.0-20221121 or later

For model Nauru 500 ISR:
1. System Flight Manual (SFM) No. ReD-CER-FW25-SFM Rev. A3.0 or later.
2. Maintenance and Inspection Manual (MIM) No. ReD-CER-FW25-MIM Rev. A0.0-20221121 or later
3. Shelter Maintenance and Inspection Manual (SMIM) No. ReD-CER-FW25-SMIM_A0.0 or later.

CHANGE RECORD

Revision	Changes	Date
Rev. 00	Original Issue	29 November 2022
Rev. 01	New model (Nauru 500 ISR) added	07 March 2023

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This DADS is available at ANAC website:
https://www.gov.br/anac/pt-br/assuntos/drones/projetos-autorizados