



**DESIGN AUTHORIZATION DATA SHEET Nº ERPAS-2869676**

Authorization Holder:

**SANTIAGO & CINTRA IMPORTAÇÃO E EXPORTAÇÃO LTDA**

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Brazil

ERPAS-2869676-00  
Sheet 01

SENSEFLY  
EBEE CLASSIC/  
EBEE CLASSIC RTK

16 April 2019

This data sheet, which is part of Design Authorization Process No. 00066.002002/2018-14, prescribes conditions and limitations under which the product, for which the Design Authorization was issued, meets the requirements of the Brazilian Civil Aviation Special Regulation RBAC-E No. 94, Subpart E.

**I - Model eBee Classic and Classic RTK, authorized in April 2019.**

**RPAS** This is a Remotely Piloted Aircraft System (RPAS) that is comprised of a Remote Piloted Aircraft (RPA), a ground station modem and a Remote Pilot Station (RPS).

**RPA** Type: Single body flying wing.  
Wingspan: 956 mm (38 in).  
Material: EPP Foam, carbon structure & composite parts.

Assembly Units:

Fuselage Micro-servos for aileron actuation  
SenseFly PN: SF000001 SenseFly PN: MCMOT00029  
(See NOTE 9)

Engine  
Manufacturer: AXI Model Motors  
Model: AXI 2208/26  
ANAC Engine Type Certificate: None  
Type: Electric brushless motor  
SenseFly PN: 60110

Engine Speed Controller (ESC)  
Manufacturer: YGE  
Model: YGE30  
SenseFly PN: 60337

Air Data Link Modem (Transceiver) 2.4 GHz  
SenseFly PN: SF200090  
ANATEL Homologation Certificate: 02048-15-05976

GNSS Reception Board  
eBee Classic  
SenseFly PN: HWPCB00755  
eBee Classic RTK  
SenseFly PN: 60263

	Automatic Flight Module Manufacturer: SenseFly SenseFly PN: SI200001 Firmware version: 3.5.0 (See NOTE 5)
	Pitot Manufacturer: SenseFly SenseFly PN: SF200085
	Ground Proximity Sensor Manufacturer: SenseFly SenseFly PN: SF200086
	External Radio Antenna SenseFly PN: MCANT00009
	Blisters SenseFly PN: MCPLA01720
	Battery Compartment SenseFly PN: 60269
	Camera Compartment SenseFly PN: 60272
	Wing SenseFly PN: SF200011
	Leading Edge Cover SenseFly PN: Right: 60198 Left: 60203
<b>ENGINE LIMITS</b> (PROPULSIVE UNIT LIMITS)	Nominal Static Traction: 0.63 kgf (6.2 N) Maximum electrical power input: 190 W Maximum rotation: 9000 RPM
<b>PROPELLER</b>	Manufacturer: APC Propellers Model: 7"x5" Electric Pusher Propeller PN: 7x5EP ANAC Propeller Type Certificate: None.  Propeller fastening rubber rings SenseFly PN: 60222
<b>FUEL</b>	Not applicable.
<b>BATTERY</b>	Manufacturer: Fullymax Battery Co. Ltd. PN: 502-02-02 Type: Lithium polymer battery, 11.1V, 2150mAh, 24Wh.
<b>ANTI-COLLISION LIGHTS</b>	Manufacturer: Flytron PN: L01
<b>TRACKER</b>	Manufacturer: SenseFly SenseFly PN: SF200004

<b>C2 LINK (RPS)</b>	Ground Station Modem Manufacturer: SenseFly SenseFly PN: SF200082 ANATEL Homologation Certificate: 02050-15-05976
<b>RPS</b>	Software Flight planning & execution software: eMotion Manufacturer: SenseFly Model: eMotion 3 Software version: 3.5.0 (see NOTE 5)
<b>AIRSPPEED LIMITS (IAS)</b>	V <sub>NE</sub> : 30 m/s (58.3 KIAS). V <sub>MIN</sub> : 11 m/s (21.3 KIAS). V <sub>MO</sub> : 25 m/s (48.6 KIAS).
<b>C. G. RANGE</b>	212 mm (8.35 in); +4.6 mm (0.18 in) -3.7 mm (0.15 in)
<b>EMPTY WEIGHT C. G. RANGE</b>	NOTE 7
<b>DATUM</b>	Nose
<b>LEVELING MEANS</b>	NOTE 7
<b>MAXIMUM WEIGHT</b>	0.75 kg (1.65 lb).
<b>EMPTY WEIGHT</b>	eBee Classic: 0.460 kg (1.01 lb) eBee Classic RTK: 0.465 kg (1.12 lb)
<b>MINIMUM CREW</b>	One remote pilot.
<b>NUMBER OF SEATS</b>	Not applicable.
<b>FUEL CAPACITY</b>	Not applicable.
<b>OIL CAPACITY</b>	Not applicable.
<b>MAX. OPERATING HEIGHT</b>	400 ft (122 m) AGL (See NOTE 8).
<b>NOMINAL ENDURANCE</b>	50 minutes.
<b>FLIGHT LIMITATIONS</b>	<ol style="list-style-type: none"> <li>1. Daylight Visual Flight Rules (VFR) in visual meteorological conditions (VMC), airspace classes F or G.</li> <li>2. Beyond visual line of sight (BVLOS) up to 5 km (2.7 nm) from remote pilot in command.</li> <li>3. Wind resistance: up to 12 m/s (23 KIAS)</li> <li>4. Operation is permitted in non-urban areas. NOTAM area shall be at least 150 meters (495 feet) away from urban areas.</li> <li>5. Operation above ground infrastructure (e.g. power transmission lines, power stations, etc) is prohibited unless authorized by its owner/operator.</li> <li>6. Operation with any inoperative (or missing) instruments or equipment is prohibited.</li> <li>7. BVLOS operation is prohibited in assisted or full manual mode (See NOTE 4).</li> </ol>
<b>SERIAL NUMBERS APPROVED</b>	All serial numbers eligible for BVLOS authorization (See NOTE 8).

**AUTHORIZATION BASIS** Brazilian Civil Aviation Special Regulation RBAC-E No. 94, Subpart E, dated 3 May 2017.

**PRODUCTION BASIS** None (See NOTE 1).

**NOTES:**

- NOTE 1** A declaration of conformity, issued by Santiago & Cintra, must be furnished for each aircraft at the time of its first inspection by ANAC.
- NOTE 2** Markings and placards: all markings and placards required by Brazilian Civil Aviation Special Regulation RBAC-E No. 94 must be installed in the appropriate locations.
- NOTE 3** The RPAS shall be operated and maintained under RBAC E-94 and in accordance with Santiago & Cintra Manual para Operadores Brasileiros AL-eBee-015 Rev. "1", dated January 2019, or later ANAC approved revision.  
The operation shall also be conducted in accordance with DECEA regulations applicable.
- NOTE 4** A remote controller may be provided by the manufacturer but its use is not part of this design authorization. Using the remote controller (operation in assisted manual or full manual modes) is prohibited while flying BVLOS.
- NOTE 5** eMotion 3.5 is applicable to RPAS eBee Classic and eBee Classic RTK.
- NOTE 6** The RPAS was tested up to 3030 m (10000 ft) AMSL.
- NOTE 7** The RPAS is approved for weight and balance obtained only from SenseFly approved payload. No weight and balance task is required before operation. Empty weight excludes weight from battery and payload modules.
- NOTE 8** Only aircraft which incorporated the modifications described in Service Bulletin SB-eBee-001 are eligible for BVLOS operations and receiving a declaration of conformity.
- NOTE 9** The RPA fuselage is sealed and its opening causes damage to its structure integrity. A statement from the manufacturer detailing all part numbers included in the fuselage assembly must be available to ANAC at the time of the aircraft inspection.



**MÁRIO IGAWA**

**Gerente-Geral de Certificação de Produto Aeronáutico  
(General Manager, Aeronautical Product Certification)**