

The recorded values must meet the designated range, resolution, and accuracy requirements during dynamic and static conditions. All data recorded must be correlated in time to within one second.

Parameters	Range	Accuracy (sensor input)	Seconds per sampling interval	Resolution	Remarks
88. All cockpit flight control input forces (control wheel, control column, rudder pedal).	Full Range Control Wheel ±70 lbs Control Column ±85 lb Rudder pedal ±165 lbs.	±5%	1	0.3% of full range	For fly-by-wire flight control systems, where flight control surface position is a function of the displacement of the control input device only, it is not necessary to record this parameter. For airplanes that have a flight control break away capability that allows either pilot to operate the control independently, record both control force inputs. The control force inputs may be sampled alternately once per 2 seconds to produce the sampling interval of 1.

¹ For A300 B2/B4 airplanes, resolution = 6 seconds.
² For A330/A340 series airplanes, resolution = 0.703°.
³ For A318/A319/A320/A321 series airplanes, resolution = 0.275% (0.088°>0.064°).
⁴ For A330/A340 series airplanes, resolution = 2.20% (0.703°>0.064°).
⁵ For A318/A319/A320/A321 series airplanes, resolution = 0.22% (0.088°>0.080°).
⁶ For A330/A340 series airplanes, resolution = 1.76% (0.703°>0.080°).
⁷ For A330/A340 series airplanes, resolution = 1.18% (0.703°>0.120°).
⁸ For A330/A340 series airplanes, resolution = 0.783% (0.352°>0.090°).
⁹ For A330/A340 series airplanes, aileron resolution = 0.704% (0.352°>0.100°). For A330/A340 series airplanes, spoiler resolution = 1.406% (0.703°>0.100°).
¹⁰ For A330/A340 series airplanes, resolution = 0.30% (0.176°>0.12°).
¹¹ For A330/A340 series airplanes, seconds per sampling interval = 1.
¹² For B-717 series airplanes, resolution = .005g. For Dassault F900C/F900EX airplanes, resolution = .007g.
¹³ For A330/A340 series airplanes, resolution = 1.05% (0.250°>0.120°).
¹⁴ For A330/A340 series airplanes, resolution = 1.05% (0.250°>0.120°). For A330 B2/B4 series airplanes, resolution = 0.92% (0.230°>0.125°).
¹⁵ For A330/A340 series airplanes, spoiler resolution = 1.406% (0.703°>0.100°).
¹⁶ For A330/A340 series airplanes, resolution = 0.5°C.
¹⁷ For Dassault F900C/F900EX airplanes, Radio Altitude resolution = 1.25 ft.
¹⁸ For A330/A340 series airplanes, resolution = 0.352 degrees.
¹⁹ For A318/A319/A320/A321 series airplanes, resolution = 4.32%. For A330/A340 series airplanes, resolution is 3.27% of full range for throttle lever angle (TLA); for reverse thrust, reverse throttle lever angle (RLA) resolution is nonlinear over the active reverse thrust range, which is 51.54 degrees to 96.14 degrees. The resolved element is 2.8 degrees uniformly over the entire active reverse thrust range, or 2.9% of the full range value of 96.14 degrees.
²⁰ For A318/A319/A320/A321 series airplanes, with IAE engines, resolution = 2.58%.

[Doc. No. 28109, 62 FR 38390, July 17, 1997; 62 FR 48135, Sept. 12, 1997, as amended by Amdt. 125-32, 64 FR 46121, Aug. 24, 1999; 65 FR 2295, Jan. 14, 2000; Amdt. 125-32, 65 FR 2295, Jan. 14, 2000; Amdt. 125-34, 65 FR 51745, Aug. 24, 2000; 65 FR 81735, Dec. 27, 2000; Amdt. 125-39, 67 FR 54323, Aug. 21, 2002; Amdt. 125-42, 68 FR 42937, July 18, 2003; 68 FR 50069, Aug. 20, 2003; 68 FR 53877, Sept. 15, 2003]

PART 129—OPERATIONS: FOREIGN AIR CARRIERS AND FOREIGN OPERATORS OF U.S.-REGISTERED AIRCRAFT ENGAGED IN COMMON CARRIAGE

Sec.

SPECIAL FEDERAL AVIATION REGULATION No. 97 [NOTE]

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APPENDIX A TO PART 129—APPLICATION FOR OPERATIONS SPECIFICATIONS BY FOREIGN AIR CARRIERS

AUTHORITY: 49 U.S.C. 1372, 40113, 40119, 44101, 44701-44702, 44705, 44709-44711, 44713, 44716-44717, 44722, 44901-44904, 44906, 44912, 46105, Pub. L. 107-71 sec. 104.

SOURCE: Docket No. 1994, 29 FR 1720, Feb. 5, 1964, unless otherwise noted.

SPECIAL FEDERAL AVIATION REGULATION No. 97

EDITORIAL NOTE: For the text of SFAR No. 97, see part 91 of this chapter.

§ 129.1 Applicability and definitions.

(a) *Foreign air carrier operations in the United States.* This part prescribes rules governing the operation within the United States of each foreign air carrier holding the following:

(1) A permit issued by the Civil Aeronautics Board or the U.S. Department of Transportation under 49 U.S.C. 41301 through 41306 (formerly section 402 of the Federal Aviation Act of 1958, as amended), or

(2) Other appropriate economic or exemption authority issued by the Civil Aeronautics Board or the U.S. Department of Transportation.

(b) *Operations of U.S.-registered aircraft solely outside the United States.* In addition to the operations specified under paragraph (a) of this section, §§ 129.14, 129.16, 129.20, 129.32, and 129.33 also apply to U.S.-registered aircraft operated solely outside the United States in common carriage by a foreign person or foreign air carrier.

(c) *Definitions.* For the purpose of this part—

(1) *Foreign person* means any person who is not a citizen of the United States and who operates a U.S.-registered aircraft in common carriage solely outside the United States.

(2) *Years in service* means the calendar time elapsed since an aircraft was issued its first U.S. or first foreign airworthiness certificate.

[Doc. No. FAA-1999-5401, 67 FR 72762, Dec. 6, 2002]

§ 129.11 Operations specifications.

(a) Each foreign air carrier shall conduct its operations within the United States in accordance with operations specifications issued by the Administrator under this part and in accordance with the Standards and Recommended Practices contained in part I (International Commercial Air Transport) of Annex 6 (Operation of Aircraft) to the Convention on International Civil Aviation Organization. Operations specifications shall include:

(1) Airports to be used;

(2) Routes or airways to be flown, and

(3) Such operations rules and practices as are necessary to prevent collisions between foreign aircraft and other aircraft.

(4) Registration marketings of each U.S.-registered aircraft.

(5) Registration and markings of each aircraft that meets equipment requirements of § 129.28(a).

(b) An application for the issue or amendment of operations specifications must be submitted in duplicate, at least 30 days before beginning operations in the United States, to the Flight Standards District Office in the area where the applicant's principal business office is located or to the Regional Flight Standards Division Manager having jurisdiction over the area to be served by the operations. If a military airport of the United States is to be used as a regular, alternate, refueling, or provisional airport, the applicant must obtain written permission to do so from the Washington Headquarters of the military organization concerned and submit two copies of that written permission with his application. Detailed requirements governing applications for the issue or amendment of operations specifications are contained in Appendix A.

(c) No person operating under this part may operate or list on its operations specifications any airplane listed on operations specifications issued under part 125.

[Doc. No. 1994, 29 FR 1720, Feb. 5, 1964, as amended by Amdt. 129-14, 52 FR 20029, May. 28, 1987; Amdt. 129-19, 54 FR 39294, Sept. 25, 1989; 54 FR 51972, Dec. 19, 1989; Amdt. 129-33, 67 FR 42455, June 21, 2002]