

Table 1. Part 121 - Flight Data Recorder Parameter Requirements

When reading the parameter specifications from Table 2 the corresponding shaded specification should be chosen for each parameter. This table refers to the FDR requirements of rule 121.373.

Parameters * if installed	(A)	(B)	(C)	(D)	(E)
	6 Parameter	11 Parameter	17 Parameter	44 Parameter	88 Parameter
1	Time	Time	Time	Time	Time or Relative time counts
2	Altitude	Altitude	Altitude	Altitude	Pressure Altitude
3	Airspeed	Airspeed	Airspeed	Airspeed	Indicated airspeed or Calibrated airspeed
4	Vertical acceleration	Vertical acceleration	Vertical acceleration	Heading	Heading (primary flight crew reference)
5	Heading	Heading	Heading	Vertical acceleration	Normal acceleration (vertical)
6	Time of radio transmission to/from ATC	Time of radio transmission to/from ATC	Time of radio transmission to/from ATC	Pitch attitude	Pitch attitude
7		Pitch attitude	Pitch attitude	Roll attitude	Roll attitude
8		Roll attitude	Roll attitude	Radio transmitter keying	Manual radio transmitter keying or CVR/DFDR synchronisation reference
9		Longitudinal acceleration	Longitudinal acceleration	Thrust/power on each engine	Thrust/power on each engine (primary flight crew reference)
10		Control column OR pitch control surface position	Pitch trim position	Trailing edge flap OR cockpit control selection	Autopilot engagement

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	6 Parameter	11 Parameter	17 Parameter	44 Parameter	88 Parameter
11		Thrust of each engine	Control column OR pitch control surface position	Leading edge flap OR cockpit control selection	Longitudinal acceleration
12			Control wheel OR lateral control surface position	Thrust reverser position	Pitch control(s) position (non fly- by-wire systems)
					Pitch control(s) position (fly-by- wire systems)
13			Rudder pedal OR yaw control surface position	Ground spoiler position/speed brake selection	Lateral control(s) position (non fly- by-wire systems)
					Lateral control(s) position (fly-by- wire systems)
14			Thrust of each engine	Marker beacon passage	Yaw control(s) position (non fly- by-wire systems)
					Yaw control(s) position (fly-by- wire systems)
15			Position of each thrust reverser	Autopilot engagement	Pitch control surface(s) position
16			Trailing edge flap OR cockpit flap control position	Longitudinal acceleration	Lateral control surface(s) position
17			Leading edge flap OR cockpit flap control position	Pilot input and/or surface position - primary controls	Yaw control surface(s) position

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	6 Parameter	11 Parameter	17 Parameter	44 Parameter	88 Parameter
18				Lateral acceleration	Lateral acceleration
19				Pitch trim position	Pitch trim surface position
20				Glideslope deviation	Trailing edge flap or cockpit control position
21				Localiser deviation	Leading edge flap or cockpit control position
22				AFCS mode and engagement status	Each thrust reverser position or equivalent for propeller aeroplane
23				Radio altitude	Ground spoiler position or speed brake position
24				Master warning	Outside air temperature or total air temperature
25				Main gear squat switch status	Autopilot/ autothrottle/AFC S mode and engagement status
26 *				Angle of attack	Radio altitude
27				Outside air temperature OR	Localiser deviation or

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	6 Parameter	11 Parameter	17 Parameter	44 Parameter	88 Parameter
				total air temperature	MLS azimuth
28				Hydraulics, each system, low pressure	Glideslope deviation or MLS elevation
29				Groundspeed	Marker beacon passage
30				Drift angle	Master warning
31				Wind speed and direction	Air/ground sensor (primary aeroplane sensor, nose or main gear)
32 *				Latitude and longitude	Angle of attack (if measure directly)
33				Brake pressure/pedal position	Hydraulic pressure low, each system
34 *				Additional engine parameters: EPR, N ₁ , N ₂	Groundspeed
35				Exhaust Gas Temperature	GPWS
36				Throttle lever position	Landing gear position or landing gear cockpit control selection

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	6 Parameter	11 Parameter	17 Parameter	44 Parameter	88 Parameter
37 *				Fuel flow	Drift angle
38 *				TCAS - TA	Wind speed and direction
39 *				TCAS - RA	Latitude and longitude
40 *				TCAS - Sensitivity level	Stick shaker and pusher activation
41 *				Ground Proximity Warning System	Windshear detection
42				Landing gear or gear selector position	Throttle/power lever position
43				DME 1 and 2 distance	Additional engine parameters
44				Nav 1 and 2 frequency selection	TCAS
45					DME 1 and 2 distances
46					Nav 1 and 2 selected frequency
47 *					Selected barometric setting
48 *					Selected altitude
49 *					Selected speed

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	6 Parameter	11 Parameter	17 Parameter	44 Parameter	88 Parameter
50 *					Selected Mach
51 *					Selected vertical speed
52 *					Selected heading
53 *					Selected flight path
54 *					Selected decision height
55					EFIS display format
56					Multi-function/engine alerts display format
57 *					Thrust command
58 *					Thrust target
59 *					Fuel quantity in CG trim tank
60					Primary navigation system reference
61 *					Ice detection
62 *					Engine warning each engine - vibration

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	6 Parameter	11 Parameter	17 Parameter	44 Parameter	88 Parameter
63 *					Engine warning each engine - over temp
64 *					Engine warning each engine - oil pressure low
65 *					Engine warning each engine - over speed
66					Yaw trim surface position
67					Roll trim surface position
68					Brake pressure - left and right
69					Brake pedal application - left and right
70 *					Yaw and side-slip angle
71 *					Engine bleed valve position
72 *					De-icing or anti-icing system selection
73 *					Computed centre of gravity
74					AC electrical bus status

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75					DC electrical bus status
76 *					APU bleed valve position
77					Hydraulic pressure each system
78					Loss of cabin pressure
79					Computer failure - critical flight and engine control systems
80 *					HUD
81 *					Para-visual display
82					Cockpit trim control input position - pitch
83					Cockpit trim control input position - roll
84					Cockpit trim control input position - yaw
85					Trailing edge flap and cockpit flap control position
86					Leading edge flap and cockpit

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Parameters * if installed	6 Parameter	11 Parameter	17 Parameter	44 Parameter	88 Parameter
					flap control position
87					Ground spoiler position and speed brake selection
88					All cockpit flight control input forces - control wheel, control column, rudder pedal