14 CFR Ch. I (1-1-19 Edition)

Pt. 125, App. D

Parameters	Range	Accuracy sensor input to DFDR readout	Sampling inter- val (per second)	Resolution 4 read out
Altitude	- 1,000 ft to max cer- tificated altitude of aircraft.	±100 to ±700 ft (See Table 1, TSO-C51a).	1	5' to 35' 1
Airspeed	alrerant. 50 KIAS to V_{so} , and V_{so} to 1.2 V_{D} .	±5%, ±3%	1	1 kt.
Heading	360°	±2°	1	0.5°
Normal Acceleration (Vertical)	-3g to + 6g	±1% of max range excluding datum error of ±5%.	8	0.01g.
Pitch Attitude	±75°	±2°	1	0.5°.
Roll Attitude	±180°	±2°	1	0.5°.
Radio Transmitter Keying	On-Off (Discrete)		1	
Thrust/Power on Each Engine	Full range forward	±2%	1	0.2%2
Frailing Edge Flap or Cockpit Control Selection.	Full range or each discrete position.	±3° or as pilot's Indicator	0.5	0.5% 2
Leading Edge Flap or Cockpit Control Selection.	Full range or each discrete position.	±3° or as pilot's indicator	0.5	0.5% 2
Thrust Reverser Position	Stowed, in transit, and reverse (Discrete).		1 (per 4 sec- onds per en- gine).	
Ground Spoiler Position/Speed	Full range or each dis-	±2% unless higher accuracy	1	0.2% 2.
Brake Selection.	crete position.	uniquely required.		
Marker Beacon Passage	Discrete		1	
Autopilot Engagement	Discrete		1	
_ongitudinal Acceleration	±1g	±1.5% max range excluding datum error of ±5%.	4	0.01g
Pilot Input and/or Surface Position-Primary Controls (Pitch, Roll, Yaw) ³ .	Full range	±2° unless higher accuracy uniquely required.	1	0.2% 2.
_ateral Acceleration	±1g	±1.5% max range excluding datum error of ±5%.	4	0.01g.
Pitch Trim Position	Full range	±3% unless higher accuracy uniquely required.	1	0.3% 2
Glideslope Deviation	±400 Microamps	±3%	1	0.3%2
ocalizer Deviation	±400 Microamps	±3%	1	0.3% 2.
AFCS Mode and Engagement Status.	Discrete		1	
Radio Altitude	-20 ft to 2,500 ft	±2 Ft or ±3% Whichever is Greater Below 500 Ft and ±5% Above 500 Ft.		1 ft + 5% ² above 500'.
Master Warning	Discrete		1	
Main Gear Squat Switch Status	Discrete		1	
Angle of Attack (if recorded directly).	As installed	As installed	2	0.3% 2.
Outside Air Temperature or Total Air Temperature.	-50 °C to + 90 °C	±2 °C	0.5	0.3 °C
Hydraulics, Each System Low Pressure.	Discrete		0.5	or 0.5% ² .
Groundspeed	As Installed	Most Accurate Systems In- stalled (IMS Equipped Air- craft Only).	1	0.2% 2.

If additional recording capacity is available, recording of the following parameters is recommended. The parameters are listed in order of significance:

Drift Angle	When available. As installed.	As installed	4	
Wind Speed and Direction	When available. As installed.	As installed	4	
Latitude and Longitude	When available. As installed.	As installed	4	
Brake pressure/Brake pedal position.	As installed	As installed	1	
Additional engine parameters:				
EPR	As installed	As installed	1 (per engine)	
N ¹	As installed	As installed	1 (per engine)	
N ²	As installed	As installed	1 (per engine)	
EGT	As installed	As installed	1 (per engine)	
Throttle Lever Position	As installed	As installed	1 (per engine)	
Fuel Flow	As installed	As installed	1 (per engine)	
TCAS:			" • /	
TA	As installed	As installed	1	
RA	As installed	As installed	1	
Sensitivity level (as se- lected by crew).	As installed	As installed	2	