



## DASTYFLYSIM Airbus320 implemented systems and features



POWERED BY





## ECAM implementation

- Emulation of A320 Flight Warning Computer
- Over 800 ECAM items

## PFD

- FMA
- Horizon
- Speed Indicator
- Altitude Indicator
- Vertical Speed Indicator
- Heading Indicator
- Localizer
- Glideslope
- ILS Information
- L/DEV and R/DEV options
- Marker Information
- Barometric Reference Indicator
- TCAS Resolution Mode
- Backup speed scale Mode

## ND

- ILS Mode
- VOR Mode
- NAV Mode
- ARC Mode
- PLAN Mode



- TCAS Display
- Terrain Display
- E-GPWS Functionality

#### Upper ECAM:

- Engine N1 Instrument
- Engine EGT Instrument
- Engine N2 Instrument
- Engine FF Instrument
- FOB Indicator
- Flaps Indicator
- Left Lower Memo Display:  
ECAM Actions calculated and displayed in real-time
- Right Lower Memo Display:  
Information about in-operational systems

#### Lower ECAM:

- Pages:
  - APU:
    - GEN Percent/Voltage/Hertz
    - Bleed
    - N Instrument
    - EGT Instrument
    - Flap Indication
    - Fault Indication
  - BLEED:
    - Wing Anti Ice
    - Air Mix Left Temperature
    - Air Mix Left Valve
    - RAM AIR
    - Air Mix Right Temperature
    - Air Mix Right Valve
    - Cross Bleed Valve
    - APU Bleed Valve
    - Inlet Bleed Air Pressure
    - Inlet Bleed Air Temperature
    - IP Valve Left
    - HP Valve Left
    - IP Valve Right
    - HP Valve Right
  - CAB PRESS:
    - LDG ELEV
    - Delta Pressure
    - Cabin Vertical Speed
    - Cabin Altitude

- Safety Valve
- Inlet Valve
- Extract Valve
- Outlet Valve
- PACK 1
- PACK 2
- Manual mode available
- COND:
  - CKPT Temperature/Mix Valve
  - FWD Temperature/Mix Valve
  - AFT Temperature/Mix Valve
  - HOT AIR
  - Cargo heating optional
- CRUISE:
  - ENG F.USED
  - ENG OIL QT
  - ENG N1 Vibrations
  - ENG N2 Vibrations
  - COCKPIT TEMP
  - FWD CABIN TEMP
  - AFT CABIN TEMP
  - FWD CARGO TEMP
  - AFT CARGO TEMP
  - LDG EVEL
  - CAB V/S
  - CAB ALT
- DOOR:
  - CKPT OXY Pressure
  - CABIN ALT V/S
  - Forward Avionics Door
  - Left Avionics Door
  - Right Avionics Door
  - Forward Entry Left
  - Forward Entry Right
  - Aft Avionics Door
  - Forward Cargo Door
  - Left Wing Door 1
  - Left Wing Door 2
  - Right Wing Door 1
  - Right Wing Door 2
  - Aft Cargo Door
  - Bulk Door
  - Aft Entry Left
  - Aft Entry Right

- ELEC:
  - BAT 1 Voltage/Ampere
  - BAT 2 Voltage/Ampere
  - TR 1 Voltage/Ampere
  - TR 2 Voltage/Ampere
  - GEN 1 Percent/Voltage/Hertz
  - GEN 2 Percent/Voltage/Hertz
  - EXT PWR Voltage/Hertz
  - IDG 1 Temperature
  - IDG 2 Temperature
  - DC BAT Bus
  - DC Bus
  - AC Bus
  - DC ESS Bus
  - AC ESS Bus
  - EMER GEN
  - ESS TR
- ENGINE:
  - F.USED
  - OIL
  - PSI
  - Temperature
  - VIB N1
  - VIB N2
- F/CTRL:
  - SPD BRK Indicator
  - L AIL
  - ELAC 1/2
  - SEC 1/2/3
  - R AIL
  - PITCH TRIM
  - L ELEV
  - RUD
  - R ELEV
- FUEL:
  - F.USED
  - ENG 1 Fuel Valve
  - ENG 2 Fuel Valve
  - APU Fuel Valve
  - Cross Feed Valve
  - Left Fuel Tank Pump 1
  - Left Fuel Tank Pump 2
  - Center Fuel Tank Pump 1
  - Center Fuel Tank Pump 2

- Right Fuel Tank Pump 1
- Right Fuel Tank Pump 2
- Left Tip Fuel Tank
- Left Fuel Tank
- Center Fuel Tank
- Right Fuel Tank
- Right Tip Fuel Tank
- Left Fuel Temperature
- Right Fuel Temperature
- Transfer valves
- HYD:
  - GREEN HYD Reservoir/Pump/Pressure
  - BLUE HYD Reservoir/Pump/Pressure
  - YELLOW HYD Reservoir/Pump/Pressure
  - PTU
  - RAT
  - ELEC
- WHEEL:
  - SPD BRK Indicator
  - Left Gear Indicator
  - Nose Gear Indicator
  - Right Gear Indicator
  - Outer Left Wheel Pressure
  - Inner Left Wheel Pressure
  - Nose Wheel Pressure
  - Inner Right Wheel Pressure
  - Outer Right Wheel Pressure
  - ASKID Indicator
  - Auto Brake Indicator
  - N/W Steering Indicator
  - NORM BRK
  - ALTN BRK
  - ACCU ONLY
- Lower Information Area:
  - TAT (True Air Temperature)
  - SAT (Static Air Temperature)
  - Clock
  - Gross Weight

#### MCDU:

- FMGC:
  - Independent Systems for CPT and F/O
  - Pages:
    - DIR:

- WAIPPOINT
- DIRECT TO
- RADIAL IN
- RADIAL OUT
- PROG:
  - CRZ
  - OPT
  - REC MAX
  - REPORT
  - UPDATE AT
  - BRG/DIST
  - PREDICTIVE
  - GPS
  - ESTIMATED ACCUR (based on selected nav sources)
- REPORT:
  - SAT
  - T.WIND
  - FOB
  - T/D
  - UTC
  - DIST
- GPS:
  - DEST:
    - PRIMARY
    - ETA
  - WPT:
    - PRIMARY
    - ETA
  - DESELECTED SATELLITES
- PERF:
  - TAKE OFF:
    - V1
    - VR
    - V2
    - FLP RETR
    - SLT TETR
    - TO SHIFT
    - CLEAN
    - FLAPS/THS
    - TRANS ALT
    - FLEX TO TEMP
    - THR RED/ACC
    - ENG OUT ACC
  - CLB:
    - ACT MODE



- CI
    - MANAGED
    - PRESEL
  - CRZ:
    - ACT MODE
    - CI
    - MANAGED
    - PRESEL
    - DES CABIN RATE
  - DES:
    - ACT MODE
    - CI
    - MANAGED
  - APPR:
    - DEST QNH
    - DEST TEMP
    - DEST MAG/WIND
    - DEST TRANS ALT
    - DEST VAPP
    - FLP RETR
    - SLT RETR
    - CLEAN
    - MDA
    - DH
    - LDG CONF
    - VLS
  - GO AROUND:
    - FLP RETR
    - SLT RETR
    - CLEAN
    - THR RED/ACC
    - ENG OUT ACC
- INIT A:
  - CO RTE
  - FROM/TO
  - ALTN/CO RTE
  - FLT NBR
  - IRS INIT
  - COST INDEX
  - CRZ FL/TEMP
  - WIND
  - GND TEMP
- INIT B:
  - ZFW/ZFWCG
  - TAXI

- TRIP/TIME
- RTE RSV
- ALT/TIME
- FINAL/TIME
- TRIP WIND
- MIN DEST FOB
- EXTRA/TIME
- BLOCK
- TOW/LW
- DATA 1:
  - POSITION MONITOR:
    - FMGC1
    - FMGC2
    - GPIRS
    - MIX IRS
    - IRS 1/2/3
    - FREEZE
    - SEL NAVAIDS
      - DESELECT
      - RADIONAV DESELCT
      - GPS DESELECT
  - IRS 1/2/3 MONITOR:
    - POSITION
    - TTRK
    - THDG
    - WIND
    - GPIRS POSITION
    - GS
    - MHDG
    - GPIRS ACCUR
    - FREEZE
  - GPS MONITOR:
    - GPS 1/2 POSITION
    - TTRK UTC/GS
    - MERIT GPS ALT MODE/SATA
  - A/C STATUS:
    - ENG
    - ACTIVE NAV DATA BASE
    - SECOND NAV DATA BASE
    - CHG CODE
    - IDLE/PERF
  - CLOSEST AIRPORTS (List):
    - ICAO
    - BRG
    - DIST

- TIME
- DATA 2:
  - WAYPOINTS:
    - IDENT
    - LAT/LON
  - PILOTS WAYPOINTS:
    - IDENT
    - LAT/LONG
    - PLACE/BRG/DIST
    - PLACE-BRG/PLACE-BRG
  - NAVAID:
    - IDENT
    - LAT/LON
  - ROUTES:
    - CO RTE
    - FROM/TO
  - PILOTS ROUTES:
      - CO RTE
      - STORE ACTIVE F-PLN
      - STORE SECONDARY F-PLN
  - ACTIVE F-PLN WINDS:
    - CLIMB/DESCENT WIND
    - TRU WIND/ALT
    - HISTORY WIND
- F-PLN:
  - List:
    - IDENT
    - BRG/TRK
    - SPD/ALT Limits
    - UTC/DIST/EFOB Calculations
  - LAT REV:
    - ARRIVAL/DEPARTURES
    - ALTN
    - FIX INFO:
      - REF FIX
    - HOLD
    - LL XING/INCR/NO
    - NEXT WPT
    - NEW DEST
    - AIRWAYS
  - VERT REV:
    - CLB SPD LIM
    - SPD CSTR
    - RTA:
      - AT WPT

- DIST
  - MANAGED
  - ACT MODE
  - ETA
  - ETT
  - CONST MACH:
    - MACH
    - START WPT
    - END WPT
    - SELECTABLE F-PLN WPTS
  - ACCESS WIND DATA:
    - CLIMB/CRZ/DECENT WIND
    - TRU WIND/ALT
    - SAT/ALT
  - STEP ALTS
    - ALT/WPT
    - DIST
    - UTC
- DEPARTURE:
  - SID
  - TRANS
- ARRIVALS:
  - APPR
  - STAR
  - TRANS
- RAD/NAV:
  - VOR1 IDENT/FREQ/CRS
  - VOR2 IDENT/FREQ/CRS
  - ILS IDENT/FREQ/CRS
  - ADF1 IDENT/FREQ
- FUEL/PRED:
  - ICAO UTC/EFOB
  - RTE RSV/%
  - ALTN/TIME
  - FINAL TIME
  - MIN DEST FOB
  - ZFW/ZFWCG
  - FOB
  - GW/CG
  - EXTRA/TIME
- SEC F-PLN:
  - COPY ACTIVE
  - SEC F-PLN
  - INIT
  - PERF

- AIRPORT (List):
    - ICAO
    - BRG
    - SPD/ALT Restrictions
    - DEST UTC/DIST/EFOB
  - MAINT:
    - PAUSE
    - FLIGHT FREEZE
    - GROUND SERVICE
      - APU QUICKSTART
      - GROUND POWER ON/OFF
      - GROUND AIR ON/OFF
      - STOP PUSHBACK
      - PUSHBACK STRAIGHT/LEFT/RIGHT
    - FMS RESET
- Flight Control Unit (FCU):
  - QNH Control
  - QNH Setting inHG/hPa
  - FD
  - LS
  - ND Display Control independent for CPT and F/O:
    - CSTR
    - WPT
    - VORD
    - NDB
    - ARPT
    - ND MODE LS/VOR/NAV/ARC/PLAN/END
    - ND RANGE 10/20/40/80/160/320 NM
    - ADF/OFF/VOR
  - SPD Selection
  - SPD Managed/Selected Mode
  - HDG Selection
  - HDG Managed/Selected Mode
  - LOC
  - HDR TRK and V/S FPA
  - AP1
  - AP2
  - A/THR
  - ALT Selection (100 or 1.000 ft.)
  - ALT Managed/Selected Mode
  - EXPED
  - V/S Selection
  - APPR

### Glareshield Left/Right:

- AUTO LAND
- MASTER WARNING
- MASTER CAUTION
- CHRONO
- SIDE STICK PRIORITY

### MIP:

- CPT and F/O:
  - GPWS TEST
  - PFD OFF/BRT
  - PFD/ND XFR
  - ND OFF/BRT
  - LOUD SPEAKER OFF/MAX
  - CONSOLE/FLOOR BRT/DIM/OFF
  - FOOT WARMER ON/OFF
- LDG GEAR Indications
- LDG UP/DOWN
- BRKFAN
- AUTO BRK LO/MED/MAX
- A/SKID & N/W STRG ON/OFF
- TERR ON ND
- Standby Displays:
  - ISIS
  - RDME
- DCDU 1 and 2
- CHRONO
- Brake Pressure Gauge

### Overhead:

- GNADIRS:
  - Display control
  - Num Pad control
  - IR1, IR3 and IR2 indicators
  - ADR1, ADR3 and ADR2 buttons and rotaries
- FLT CTL (Left):
  - ELAC 1
  - SEC 1
  - FAC 1
- EVAC:
  - COMMAND
  - HORN SHUT OFF
  - CAPT & PURS
- EMER ELEC PWR:
  - EMER GEN TEST
  - GEN 1 LINE

- RAT & EMER GEN
  - MAN ON
- GPWS:
  - TERR
  - SYS
  - G/S MODE
  - FLAP MODE
  - LDG FLAP 3
- RCDR:
  - GND CTL
  - CVR ERASE
  - CVR TEST
- OXYGEN:
  - MASK MAN ON
  - PASSENGER
  - CREW SUPPLY
- CALLS:
  - MECH
  - FWD
  - AFT
  - EMER
- FIRE:
  - ENG 1.
    - FIRE
    - TEST
    - AGENT 1 DISCH
    - AGENT 2 DISCH
  - APU:
    - FIRE
    - TEST
    - AGENT
  - ENG 2:
    - FIRE
    - TEST
    - AGENT 1 DISCH
    - AGENT 2 DISCH
- HYD:
  - GREEN ENG 1 PUMP
  - BLUE ELEC PUMP
  - YELLOW ENG 2 PUMP
  - YELLOW ELEC PUMP
  - RAT MAN ON
  - PTU
- FUEL:
  - LTK PUMP 1

- LTK PUMP 2
- CTR TK PUMP 1
- CTR TK PUMP 2
- RTK PUMP 1
- RTK PUMP 2
- X-FEED
- MODE SEL
- ELEC:
  - COMMERCIAL
  - GALY & CAB
  - BAT 1 (including voltage indicator)
  - BAT 2 (including voltage indicator)
  - IDG 1
  - IDG 2
  - GEN 1
  - GEN 2
  - AC ESS FEED
  - APU GEN
  - BUS TIE
  - EXT PWR
- AIR COND:
  - PACK FLOW LO/NORM/HI
  - COCKPIT
  - FWD CABIN
  - AFT CABIN
  - HOT AIR
  - PACK 1
  - PACK 2
  - ENG 1 BLEED
  - ENG 2 BLEED
  - RAM AIR
  - APU BLEED
  - X BLEED SHUT/AUTO/OPEN
- ANTI ICE:
  - WING
  - ENG 1
  - ENG 2
- PROBE/WINDOW HEAT
- CABIN PRESS:
  - MAN V/S CTL UP/DOWN
  - MODE SEL
  - LDG ELEV AUTO
  - DITCHING
- EXT LT:
  - STROBE ON/AUTO/OFF



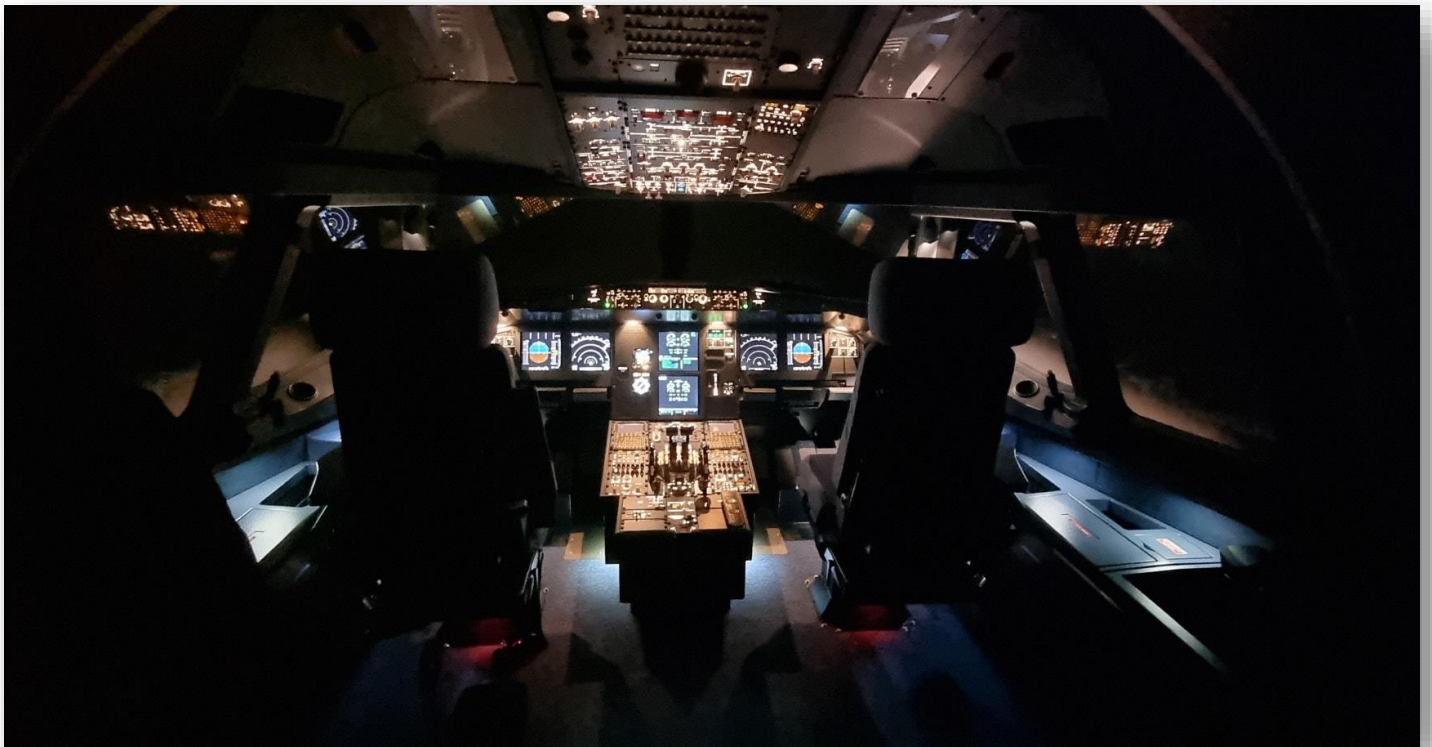
- BEACON ON/OFF
  - WING ON/OFF
  - NAV & LOGO 2/1/OFF
  - RWY TURN OFF ON/OFF
  - LAND L ON/OFF/RETRACT
  - LAND R ON/OFF/RETRACT
  - NOSE TO/TAXI/OFF
- APU:
  - MASTER SW
  - START
- INT LT:
  - OVHD INTEG LT Brightness Control
  - ICE IND & STBY COMPASS ON/OFF
  - DOME BRT/DIM/OFF
  - AMN LT TEST/DIM/OFF
- SIGNS:
  - SEAT BELTS ON/AUTO/OFF
  - NO SMOKING ON/AUTO/OFF
  - EMER EXIT LT ON/ARM/OFF
- FLT CTL (Right):
  - ELAC 2
  - SEC 2
  - SEC 3
  - FAC 2
- CARGO VENT:
  - AFT ISOL VALVE
- CARGO SMOKE:
  - DISCH
  - FWD
  - TEST
  - AFT
  - DISCH
- VENTILATION:
  - BLOWER
  - EXTRACT
  - CAB FANS
- ENG:
  - MAN START 1
  - MAN START 2
- WIPER Left & Right
- HYD (Aft Overhead):
  - BLUE PUMP OVRD
  - LEAK MEASUREMENT VALVES G
  - LEAK MEASUREMENT VALVES B
  - LEAK MEASUREMENT VALVES Y

- APU AUTO EXTING:
  - TEST
  - RESET
- ENG:
  - FADEC GND PWR 1
  - FADEC GND PWR 2



## Simulated Failures:

- Air Conditioning:
  - Cargo aft isolation valve downstream
  - Cargo aft isolation valve upstream
  - Cargo fwd isolation valve downstream
  - Cargo fwd isolation valve upstream
  - Cargo ventilation controller
  - CPC 1
  - CPC 2
  - Pack 1 overheat
  - Pack 2 overheat
  - Rapid decompression
  - Recirculation fans
  - Slow decompression
  - Trim air system fault
  - Vent extract valve
  - Vent inlet valve
  - Ventilation AEVC
  - Ventilation blower fault
  - Ventilation extract fault
  - Zone controller primary
  - Zone controller secondary
- APU:
  - APU Low oil level
  - ECB
- AutoFlight:
  - A/THR 1
  - A/THR 2
  - Alternate law with protection
  - Alternate law without protection
  - AP 1
  - AP 2
  - Direct law
  - FAC 1
  - FAC 1 resettable fault
  - FAC 2
  - FAC 2 resettable fault
  - FCU Channel 1
  - FCU Channel 2



- Reactive W/S det channel 1
- Reactive W/S det channel 2
- Rudder travel limiter channel 1
- Rudder travel limiter channel 2
- Rudder trim channel 1
- Rudder trim channel 2
- Communications:
  - Capt stuck mic
  - F/O stuck mic
- Doors:
  - Aft avionics door
  - Aft cargo door
  - Aft entry left door
  - Aft entry right door
  - Bulk door
  - Forward avionics door
  - Forward cargo door
  - Forward entry left door
  - Forward entry right door
  - Left avionics door
  - Left wing 1 door
  - Left wing 2 door
  - Right avionics door
  - Right wing 1 door
  - Right wing 2 door

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#### Electrical Power:

- AC bus 1
- AC bus 2
- AC Ess Bus Altn
- AC Essential bus
- AC Essential shed bus
- AC Static inverter bus
- APU Generator
- DC Bat bus
- DC bus 1
- DC bus 2
- DC Essential bus
- DC Essential shed bus
- ESS TR failure
- Generator 1
- Generator 1 disconnect
- Generator 2
- Generator 2 disconnect
- Hot bus 1
- Hot bus 2



- IDG 1 oil low pressure
- IDG 1 oil overheat
- IDG 2 oil low pressure
- IDG 2 oil overheat
- Static inverter
- TR 1 failure
- TR 2 failure
- Engine Faults:
  - Fadec Left Channel A
  - Fadec Left Channel B
  - Fadec Right Channel A
  - Fadec Right Channel B
  - Left failure
  - Left high EGT
  - Left high N1
  - Right failure
  - Right high EGT
  - Right high N1
- Fire Protection:
  - Aft cargo smoke detected
  - APU fire extinguished with 1 bottle
  - APU Loop A
  - APU Loop B
  - APU unextinguishable fire
  - Avionics smoke detected
  - Cargo bottle discharged
  - Eng 1 fire extinguished with 1 bottle
  - Eng 1 fire extinguished with 2 bottles
  - Eng 1 Loop A
  - Eng 1 Loop B
  - Eng 1 unextinguishable fire
  - Eng 2 fire extinguished with 1 bottle
  - Eng 2 fire extinguished with 2 bottles
  - Eng 2 Loop A
  - Eng 2 Loop B
  - Eng 2 unextinguishable fire
  - FDU 1
  - FDU 2
  - Fire APU agent discharged
  - Fire Eng 1 agent 1 discharged
  - Fire Eng 1 agent 2 discharged
  - Fire Eng 2 agent 1 discharged
  - Fire Eng 2 agent 2 discharged
  - Fwd cargo smoke detected
  - SDCU

- Flight Controls:
  - Alignment fault
  - ELAC 1
  - ELAC 1 resettable fault
  - ELAC 2
  - ELAC 2 resettable fault
  - Elev total failure
  - Flap locked
  - L Elev failure
  - R Elev failure
  - SEC 1
  - SEC 1 resettable fault
  - SEC 2
  - SEC 2 resettable fault
  - SEC 3
  - SEC 3 resettable fault
  - SFCC 1
  - SFCC 2
  - Sidestick fault Capt
  - Sidestick fault F/O
  - Sidestick reversal Capt
  - Sidestick reversal F/O
  - Slat locked
  - Stabilizer jam
  - Yaw damper channel 1
  - Yaw damper channel 2
- Fuel:
  - APU valve
  - Crossfeed valve
  - Eng 1 valve
  - Eng 2 valve
  - FQI Chan 1
  - FQI Chan 2
  - Fuel leak Center
  - Fuel leak Left inner
  - Fuel leak Left outer
  - Fuel leak Right inner
  - Fuel leak Right outer
  - Fuel pump center 1
  - Fuel pump center 2
  - Fuel pump left 1
  - Fuel pump left 2
  - Fuel pump right 1
  - Fuel pump right 2
  - HP Fuel valve left

- HP Fuel valve right
- Inner tank high fuel temp Adv
- Inner tank high fuel temp ECAM
- Inner tank low fuel temp Adv
- Inner tank low fuel temp ECAM
- Left transfer 1
- Left transfer 2
- Outer tank high fuel temp Adv
- Outer tank high fuel temp ECAM
- Outer tank low fuel temp Adv
- Outer tank low fuel temp ECAM
- Right transfer 1
- Right transfer 2
- Hydraulic Power:
  - Blue hydraulic leak
  - Blue low reservoir air pressure
  - Blue reservoir overheat
  - Elec blue pump overheat
  - Elec yellow pump overheat
  - Eng 1 pump failure
  - Eng 2 pump failure
  - Green hydraulic leak
  - Green low reservoir air pressure
  - Green reservoir overheat
  - PTU Fault
  - RAT Deployed
  - Reverser valve left
  - Reverser valve right
  - Yellow hydraulic leak
  - Yellow low reservoir air pressure
  - Yellow reservoir overheat
- Ice and Rain Protection:
  - EAI Valve
  - EAI Valve
  - Moderate icing buildup in 5 minutes
  - Severe icing buildup in 5 minutes
  - WAI Valve
  - WAI Valve
  - WHC 1
  - WHC 2
- Indicating/Recording System:
  - CVR
  - DMC 1
  - DMC 2
  - DMC 3



- DU Capt ND
- DU Capt PFD
- DU ECAM Lower
- DU ECAM Upper
- DU F/O ND
- DU F/O PFD
- ECP
- FWC 1
- FWC 2
- SDAC 1
- SDAC 2
- Landing Gear:
  - BSCU 1 brake fault
  - BSCU 2 brake fault
  - BSCU Channel 1
  - BSCU Channel 2
  - Gear locked down
  - Gear locked up
  - Gear safety valve
  - Left main gear does not lock
  - LGCUI 1
  - LGCUI 2
  - Nose gear does not lock
  - Reset brake temperature
  - Right main gear does not lock
- Navigation:
  - ADF 1
  - ADF 2
  - ADR1 ADR failure
  - ADR2 ADR failure
  - ADR3 ADR failure
  - ATC 1
  - ATC 2
  - FMGC 1
  - FMGC 2
  - Glideslope
  - GPS 1
  - GPS 2
  - GPWC
  - ILS 1 G/S
  - ILS 1 LOC
  - ILS 2 G/S
  - ILS 2 LOC
  - IR1 alignment
  - IR1 position failure

- IR1 total failure
- IR2 alignment
- IR2 position failure
- IR2 total failure
- IR3 alignment
- IR3 position failure
- IR3 total failure
- Localizer
- MCDU 1
- MCDU 2
- Radio altimeter 1
- Radio altimeter 2
- TCAS
- VOR 1
- VOR 2
- Oxygen:
  - Crew oxygen low pressure
  - Oxygen supply valve
  - Passenger oxygen deployed
- Pneumatic:
  - ACSC 1
  - ACSC 2
  - APU Bleed valve
  - Bleed leak APU
  - Bleed leak pylon engine 1
  - Bleed leak pylon engine 2
  - Bleed leak wing engine 1
  - Bleed leak wing engine 2
  - BMC 1
  - BMC 2
  - Crossbleed valve
  - Eng 1 HP Valve
  - Eng 1 bleed low temp
  - Eng 1 bleed valve
  - Eng 2 HP Valve
  - Eng 2 bleed low temp
  - Eng 2 bleed valve
  - Hot air valve
  - Hot air valve aft cargo
  - Lavatory/Galley fan
  - Pack 1 flow control valve
  - Pack 2 flow control valve
  - Ram air valve
  - Start valve left
  - Start valve right

- Power Plant:
  - EIU 1
  - EIU 2
  - Engine 1 low oil quatity
  - Engine 1 oil temperature high
  - Engine 1 oil temperature high advisory
  - Engine 2 low oil quatity
  - Engine 2 oil temperature high
  - Engine 2 oil temperature high advisory
- Start Faults:
  - Left hot start
  - Left hung start
  - Right hot start
  - Right hung start
- Simulated Circuit Breakers
  - Braking & Steering sys 1 ctl
  - Braking & Steering sys 1 sply
  - Braking & Steering sys 2 ctl
  - Braking & Steering sys 2 sply
  - Capt ND SPLY
  - Capt PFD SPLY
  - COM HF1
  - COM HF2
  - COM RMP1
  - COM VHF1
  - COM VHF2
  - COM VHF3
  - DMC1/SPLY
  - DMC2/SPLY
  - DMC3/SPLY
  - DMC3/STNDBY\_SPLY
  - ELAC 1 Norm sply
  - ELAC 1 Stby sply
  - ELAC 2 Norm sply
  - ELAC 2 Stby sply
  - F/O ND SPLY
  - F/O PFD SPLY
  - FAC 1 Norm sply
  - FAC 1 Stby sply
  - FAC 2 Norm sply
  - FAC 2 Stby sply
  - FCU 1
  - FCU 2
  - FMGC 1
  - FMGC 2

- FQI Chan 1
- FQI Chan 2
- FWC 1 Supply
- GPWS 115V AC
- LGCIU SYS 1
- LGCIU SYS 1 GND Supply
- Lower ECAM SPLY
- LP Valve MOT1 ENG1
- LP Valve MOT1 ENG2
- LP Valve MOT2 ENG1
- LP Valve MOT2 ENG2
- MCDU 1
- MCDU 2
- NAV ATC1
- NAV ILS1
- NAV VOR1
- SDAC 1 Supply
- SDAC 2 Supply
- SEC 1 Norm sply
- SEC 2 sply
- SEC 3 sply
- Upper ECAM SPLY
- XFR VALVE1 L
- XFR VALVE1 R
- XFR VALVE2 L
- XFR VALVE2 R

