

Dornier 228 - Enhanced Modular Cockpit Concept (EMCC) for classic aircraft

Ensure avionics compliance with our glass cockpit solution



Upgrade the Dornier 228 classic cockpit to meet the ADS-B Out regulatory mandates. RUAG has identified the Enhanced Modular Cockpit Concept (EMCC) as a comprehensive yet economical solution that allows you to decide how you plan for your updates. Choose to meet the full spectrum of compliance requirements, or make only a partial selection, all according to your specific operational needs. Every modular option includes full ADS-B Out compliance as well as state-of-the-art avionics specifically designed for your cockpit. Dornier 228 operators benefit from improved situational awareness, enhanced safety, reliable performance, lower operating costs and future-oriented technology.

Enhanced Modular Cockpit Concept

EMCC is designed to allow operators to choose which upgrades they actually need while ensuring there is minimum impact on the existing system. Modular upgrade options provide state-of-the-art avionics serving multiple aircraft system configurations and operational needs. You control which capabilities are upgraded while keeping costs within budget. Full ADS-B Out compliance is guaranteed and your avionics are prepared for future upgrades.

Savings on operational costs

Choosing the EMCC cockpit combines the advantage of ADS-B Out compliance with long-term operating benefits and cost savings. Maintenance and repair downtimes as well as the time spent sourcing spare parts for aging avionics and flight deck instruments are reduced with every modular solution you select.

EMCC - Compliance for regulatory mandates

- ADS-B Out
- 8.33kHz
- ACAS II with Change 7.1
- TAWS Class A
- Mode S incl. ELS/EHS
- Future upgrade ready



Together
ahead. **RUAG**

EMCC Advantages

- Fully compliant with Elementary, Enhanced and ADS-B OUT mandate and is designed to for future fit ADS-B IN
- Enhances situational awareness for the flight crew through highly integrated display features for
 - ACAS II
 - TAWS Class A
 - Synthetic Vision
- Provides additional navigational capabilities such as
 - RNAV5, RNAV1, LNAV, LNAV/VNAV, and LPV
 - Coupled to Flight Guidance
- Centralized control of VHF COM, VHF NAV, transponder, and ACAS II units
- Modular concept reduces operational costs
 - Choose which instruments to upgrade and when, even one at a time
 - High reliability of new avionics components
 - All units are on-condition
 - Depending on specific modular selection, aging and outdated avionics equipment are replaced
 - Number of avionics components is reduced, thus reducing spares inventory
 - Global access for replacement avionics components
 - Post-warranty, fixed flat-rate repair pricing model is available
- Provides options for engine data logging and in-flight monitoring with export function for post-flight analysis

Upgrade to EMCC



Dornier 228 classic baseline cockpit configuration

- 2x PFD/MFD
- 1x Crew Alerting

Flight deck 1

- Single MFD and conventional engine instrumentation

Flight deck 2

- Dual MFD including engine indication

Flight deck 3

- Single large MFD including engine indication

Choose your upgrade package – EMCC features modular functionality

Primary flight display

- State-of-the-art touchscreen displays
- Tap to access
- Heading bug, Airspeed bug, Altitude bug, Vertical speed bug, Barometric setting and more
- SVT™ – Synthetic Vision Technology
- HSI map display with your choice of overlays
 - Traffic
 - Terrain
 - Weather radar
 - Flight Plan (waypoints)
 - SafeTaxi® diagrams

Multifunctional displays

(1, 2 or single large format MFD)

- Dynamic moving map
- Traffic
- Terrain
- Airspace
- Charts
- Flight plan
- Weather radar and Stormscope
- Waypoint information
- Select, manage and export profile settings

Engine indication system

- Display of key engine data
- Engine data logging and in-flight monitoring with export function for post-analysis
- Automatic recording of engine exceedances