

Radio Control & Display Unit

MASS has been contracted by ITT Defence to design, build, qualify for flight, and manufacture a Radio Control Display Unit (RCDU) as part of the Bowman Air Radio programme. The RCDU is essentially the front end to the Bowman Airborne Radio, known as the ADRA.

The development and production of the RCDU by MASS has been carried out in 4 major phases:-

- **PHASE 1** - Develop an X-model designed to prove the circuit design and to test out the interface with the menu driven display. This phase was completed on time and 3 X-models were delivered to the customer for initial integration with their X-model radio prototype.
- **PHASE 2** - Develop the X-Model into a representative RCDU in size, weight and look, to be used for further functional and integration testing. These RCDU variants, known as DVT prototype (Design Verification Test), were built tested and delivered on time to the customer for testing with the ADRA.
- **PHASE 3** - Develop and build pre-production variants known as LRIP's (Low Rate Initial Production). Representative of the final production version, these were used for Qualification for flight prior to full production of the units.
- **PHASE 4** - Production of the RCDU utilising MASS's flexible production process. The boards are manufactured and populated by our 'Best in Class' partners ready for MASS to carry out final assembly, manufacture and environmental testing, prior to packaging and delivery of the finished units to the customer.



MASS brought the following attributes to bear, in the development of this equipment:-

- Our skills and experience in designing, building, qualifying and integrating military airborne and ground equipment.
- Our successful experiences developing and integrating encrypted electronics alongside CESSG.
- Our ability to maximise the commonality of the hardware, production and test processes for products in a most cost-effective manner.
- Our flexible approach to the development and manufacture of electronic equipment.
- Our 'open, honest relationship' ethos with our customers.



FLY025/1



trusted to support secure operations

MASS is an independent UK Systems House with a strong Defence & Aerospace market focus, offering specialist skills in:

- **Electronic Warfare**
- **Technology & Innovation**
- **Information Technology**

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