

**SUPPLEMENT D64
TO THE AIRPLANE FLIGHT MANUAL
DA 62**

DEMONSTRATOR CONFIGURATION

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The technical information contained in this document has been approved under the authority of DOA ref. EASA.21J.052.



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0.1 RECORD OF REVISIONS

Rev. No.	Reason	Chapter	Page(s)	Date of Revision	Approval Note	Date of Approval	Date Inserted	Signature

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FOREWORD

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1. GENERAL

1.1 INTRODUCTION

The DA 62 MPP can be equipped with an optional Demonstrator Configuration. To enable this installation of the WX Multi-Purpose Nose (System No.: M30) and the Equipment Wiring Installation Duct (System No. M90) must be installed.

The supplements of the following modules must be included into the AFM:

Modules	Doc. No.
M30 - WX Multi-Purpose Nose	Supplement STC-62-001-M30
M90 - Equipment Wiring Installation Duct	Supplement STC-62-001-M90

2. OPERATING LIMITATIONS

2.12 FLIGHT CREW

For flights with the MISSION MASTER switch ON:

Minimum crew : 2 (two persons) consisting of
: 1 pilot and
1 mission equipment operator
seated in the rear cabin

WARNING

The operation of the airplane in aerial work needs special training for the pilot and the operator.

2.13 KINDS OF OPERATION

Flights according to VFR, NVFR and IFR with mission master ON are permitted.

3. EMERGENCY PROCEDURES

WARNING

The mission system power supply must be switched off in any emergency, abnormal, or icing condition.

3.12 SMOKE AND FIRE

3.12.6 CABIN SMOKE

1. MISSION MASTER OFF

Initiate an emergency descent

2. FLAPS UP
3. LANDING GEAR DOWN
4. POWER lever IDLE
5. FLAPS as required

WARNING

Max. operating speed with equipment installed: $v_{MAX} = 162$ KIAS

6. Land on the nearest suitable airfield.

END OF CHECKLIST

4A. NORMAL OPERATING PROCEDURES

4A.6 CHECKLISTS FOR NORMAL OPERATING PROCEDURES

4A.6.6 BEFORE TAKE-OFF

1. Loose equipment securely stowed checked
2. Baggage net installed and tightened

END OF CHECKLIST

4A.6.22 USING MISSION EQUIPMENT

Starting mission:

1. POSITION LIGHTS and STROBE ON
2. MISSION MASTER ON

WARNING

The mission system power supply must be switched off in any emergency, abnormal, or icing condition.

After mission:

1. MISSION MASTER OFF

END OF CHECKLIST

4A.6.11 APPROACH & LANDING

1. Loose equipment securely stowed checked

END OF CHECKLIST

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4B. ABNORMAL OPERATING PROCEDURES

No change.

5. PERFORMANCE

No change.

6. MASS AND BALANCE

6.4 FLIGHT MASS AND CENTER OF GRAVITY

6.4.1 MOMENT ARMS

The lever arms of the Demonstrator Configuration Components aft of the Datum Plane:

Item	Mass		Lever Arm	
	kg	lb	m	in
17,3" High Definiton Rugged Display	4.5	9.92	2.74	107.87
Blackmagic Design Video Assist 7" 12G HDR	0.9	1.98	1.89	74.4
Fanless Computer	5.7	12.56	4.05	159.45
iKey Keyboard	0.96	2.11	2.77	109.05
Active L1/L2/L5 GPS/GLONASS Antenna	0.19	0.42	-0.57	-2.24
Active L1/L2/L5 GPS/GLONASS Antenna	0.19	0.42	-0.37	-14.57
Active L1/L2/L5 GPS/GLONASS Antenna	0.19	0.42	3.79	149,21
VHF Antenna	0.27	0.59	3.40	133.86
L/S-Band Omni Blade Antenna	0.16	0.35	4.38	172.44

NOTE

The masses shown in the table above are equipment masses without mounting provisions.

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6.5.1 ADDITIONAL EQUIPMENT LIST

Airplane Serial No.:		Registration:		Date:	
No.	Description	Part No.	Manufacturer	S/N	Installed
1	17,3" High Definiton Rugged Display	VPT-17HD-MIL-PT	Viewpoint	2001	
2	17,3" High Definiton Rugged Display	VPT-17HD-MIL-PT	Viewpoint	2002	
3	Blackmagic Design Video Assist 7" 12G HDR	12285801	Blackmagic	11676917	
4	Fanless Computer	ABOX-5210G6-i9	Sintrones	GSN23-0001	
5	iKey Keyboard	IK-TR-911-RED-3Y	iKey	052224000470	
6	Active L1/L2/L5 GPS/GLONASS Antenna	MAT-743GPS1216A-T1	Matterwaves	101580	
7	Active L1/L2/L5 GPS/GLONASS Antenna	MAT-743GPS1216A-T1	Matterwaves	169520	
8	Active L1/L2/L5 GPS/GLONASS Antenna	MAT-743GPS1216A-T1	Matterwaves	090806	
9	VHF Antenna	CI 292-3	Comant	714378	
10	L/S-Band Omni Blade Antenna	5B-0.70-2.70VV-XTT-1	Antcom	98107	

7. DESCRIPTION OF THE AIRPLANE AND ITS SYSTEMS

7.1 INTRODUCTION

The DA 62 MPP can be equipped with an optional Demonstrator Configuration if the WX Multi-Purpose Nose is installed.

This Configuration consists of a Monitor and Display set for Pilot and Operator as well as a Mission PC in the rear baggage compartment.

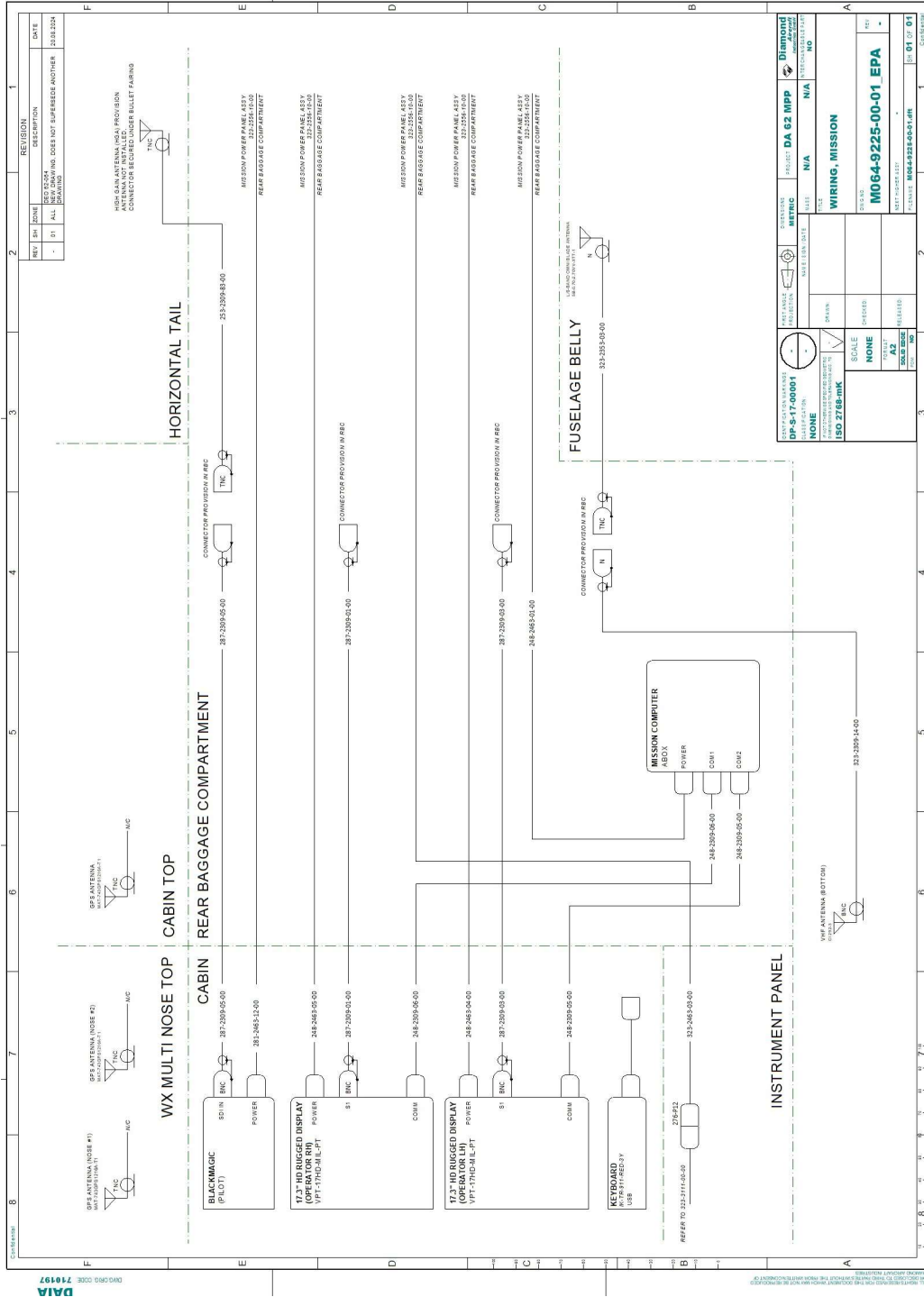
7.10 ELECTRICAL SYSTEM

7.10.3 WARNING, CAUTION AND ADVISORY MESSAGES

All components of the Demonstrator Configuration are connected to the Mission Bus via the in the rear baggage compartment installed Power Panel.

The following table shows the peak power consumption of the parts of the Demonstrator Configuration at 28V DC. The maximum continuous power consumption is slightly lower. This table must be used in conjunction with the AMM of the DA 62 Doc. No. 7.02.25-DEO 62-064, Section 24-81.

System	Power Consumption [A]
Demonstrator Configuration	13.0A @ 28V



8. AIRPLANE HANDLING, CARE AND MAINTENANCE

NOTE

The items of the Demonstrator Configuration consist of a number of high precision parts.

The exposure of the equipped airplane to high humidity, high vibration/ shocks and high temperature variation should be avoided whenever possible.

NOTE

For detailed information about the handling, care and maintenance of the individual Demonstrator Configuration Components refer to the corresponding supplier manuals, latest revision.