

# MCP CONFIG

KEEPING TRACK OF PMDG 737 & MOBIFLIGHT DATA

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## TOGGLE SWITCHES (1)

PMDG 737 DESCRIPTION		MOBIFLIGHT INPUT	ACTION TYPE	MOBI MODULE	DEVICE & PIN	EVENT ID	PARAMETER
1	MCP AP Disengage Dis-engage (MOM/OFF/MOM)	On Press	Event ID		Button 2	70038	1
		On Release	Event ID		Button 2	70038	0
2	MCP AT Arm Arm (ON/OFF)	On Press	Event ID		Button 3	70012	1
		On Release	Event ID		Button 3	70012	0
3	MCP Captain F/D On (ON/OFF)	On Press	Event ID		Button 4	70010	1
		On Release	Event ID		Button 4	70010	0
4	MCP F/O F/D on (ON/OFF)	On Press	Event ID		Button 5	70039	1
		On Release	Event ID		Button 5	70039	0

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## KD2-22 MOMENTARY SWITCHES (2)

PMDG 737 DESCRIPTION		MOBIFLIGHT INPUT	ACTION TYPE	MOBI MODULE	DEVICE & PIN	EVENT ID	PARAMETER
1	MCP Alt hold Pushed	On Press	Event ID		Button <b>6</b>	70026	536870912
		On Release	Event ID		Button <b>6</b>	0	0
2	MCP Alt Int Pushed	On Press	Event ID		Button <b>7</b>	70517	1
		On Release	Event ID		Button <b>7</b>	0	0
3	MCP APP Pushed	On Press	Event ID		Button <b>8</b>		
		On Release	Event ID		Button <b>8</b>		
4	MCP Bank limit 25	On Press	Event ID		Button <b>9</b>		
		On Release	Event ID		Button <b>9</b>		
5	MCP Bank limit 30	On Press	Event ID		Button <b>10</b>		
		On Release	Event ID		Button <b>10</b>		
6	MCP Bank limit 10	On Press	Event ID		Button <b>11</b>		
		On Release	Event ID		Button <b>11</b>		
7	MCP Bank limit 15	On Press	Event ID		Button <b>12</b>		
		On Release	Event ID		Button <b>12</b>		
8	MCP Bank limit 20	On Press	Event ID		Button <b>13</b>		
		On Release	Event ID		Button <b>13</b>		
9	MCP C/O Pushed	On Press	Event ID		Button <b>14</b>	70015	1
		On Release	Event ID		Button <b>14</b>	0	0
10	MCP CMD A Pushed	On Press	Event ID		Button <b>15</b>	70034	536870912
		On Release	Event ID		Button <b>15</b>	0	0

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## KD2-22 MOMENTARY SWITCHES (3)

PROSIM DESCRIPTION		MOBIFLIGHT INPUT	ACTION TYPE	MOBI MODULE	DEVICE & PIN	EVENT ID	PARAMETER
11	MCP CMD B Pushed	On Press	Event ID		Button 12	70035	536870912
		On Release	Event ID		Button 12	0	0
12	MCP CWS A Pushed	On Press	Event ID		Button 13	70036	536870912
		On Release	Event ID		Button 13	0	0
13	MCP CWS B Pushed	On Press	Event ID		Button 14	70037	536870912
		On Release	Event ID		Button 14	0	0
14	MCP Heading + Bank Sel Pushed	On Press	Event ID		Button 15	70024	536870912
		On Release	Event ID		Button 15	0	0
15	MCP Level change Pushed	On Press	Event ID		Button 16	70023	536870912
		On Release	Event ID		Button 16	0	0
16	MCP LNAV Pushed	On Press	Event ID		Button 17	70029	536870912
		On Release	Event ID		Button 17	0	0
17	MCP N1 Pushed	On Press	Event ID		Button 18	70013	536870912
		On Release	Event ID		Button 18	0	0
18	MCP Speed hold Pushed	On Press	Event ID		Button 19	70014	536870912
		On Release	Event ID		Button 19	0	0
19	MCP Speed Int Pushed	On Press	Event ID		Button 20	70019	1
		On Release	Event ID		Button 20	0	0
20	MCP V/S Pushed	On Press	Event ID		Button 21	70027	536870912
		On Release	Event ID		Button 21	0	0

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## SWITCHES (4)

PROSIM DESCRIPTION		MOBIFLIGHT INPUT	ACTION TYPE	MOBI MODULE	DEVICE & PIN	OFFSET	PARAMETER
21	MCP VNAV Pushed	On Press	Event ID		Button <b>22</b>	70018	536870912
		On Release	Event ID		Button <b>22</b>	0	0
22	MCP VOR/LOC Pushed	On Press	Event ID		Button <b>23</b>	70028	536870912
		On Release	Event ID		Button <b>23</b>	0	0

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## INDICATORS (1)

PROSIM DESCRIPTION		MOBIFLIGHT OUTPUT	OFFSET	VALUE TYPE	SIZE IN BYTES	MASK VALUE	MOBI CONFIG	MOBI MODULE	USE TYPE OF	PIN
1	MCP A/T	FSUIPC TAB	653A	INT	1	0xFF	DISPLAY TAB		PIN	Output28
2	MCP Alt hold	FSUIPC TAB	6543	INT	1	0xFF	DISPLAY TAB		PIN	Output29
3	MCP APP	FSUIPC TAB	6542	INT	1	0xFF	DISPLAY TAB		PIN	Output30
4	MCP CMD A	FSUIPC TAB	6545	INT	1	0xFF	DISPLAY TAB		PIN	Output31
5	MCP CMD B	FSUIPC TAB	6547	INT	1	0xFF	DISPLAY TAB		PIN	Output32
6	MCP CWS A	FSUIPC TAB	6546	INT	1	0xFF	DISPLAY TAB		PIN	Output33
7	MCP CWS B	FSUIPC TAB	6548	INT	1	0xFF	DISPLAY TAB		PIN	Output34
8	MCP FCC A Master	FSUIPC TAB	6538	INT	1	0xFF	DISPLAY TAB		PIN	Output35
9	MCP FCC B Master	FSUIPC TAB	6539	INT	1	0xFF	DISPLAY TAB		PIN	Output36
10	MCP HDG SEL	FSUIPC TAB	653F	INT	1	0xFF	DISPLAY TAB		PIN	Output37
11	MCP Level Change	FSUIPC TAB	653E	INT	1	0xFF	DISPLAY TAB		PIN	Output38
12	MCP LNAV	FSUIPC TAB	6540	INT	1	0xFF	DISPLAY TAB		PIN	Output39
13	MCP N1	FSUIPC TAB	653B	INT	1	0xFF	DISPLAY TAB		PIN	Output40
14	MCP Speed	FSUIPC TAB	653C	INT	1	0xFF	DISPLAY TAB		PIN	Output41

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## INDICATORS (2)

PROSIM DESCRIPTION		MOBIFLIGHT OUTPUT	OFFSET	VALUE TYPE	SIZE IN BYTES	MASK VALUE	MOBI CONFIG	MOBI MODULE	USE TYPE OF	PIN
15	MCP V/S	FSUIPC TAB	6544	INT	1	0xFF	DISPLAY TAB		PIN	Output42
16	MCP VNAV	FSUIPC TAB	653D	INT	1	0xFF	DISPLAY TAB		PIN	Output43
17	MCP VOR/LOC	FSUIPC TAB	6541	INT	1	0xFF	DISPLAY TAB		PIN	Output44

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## NUMERICAL (1) – 7 Segment Displays

1	PMDG CONFIG	MCP IAS	PMDG TYPE	INT: 2 BYTES	HEX VALUE	6524 6528
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<p><b>MCP_IAS_DISPLAY :</b>  <b>Offset:</b> 6524  <b>Volume Type :</b> Float  <b>Size in Byte:</b> 4  <b>Transform:</b>  <b>Display:</b> 3 digits  <b>Left Padding:</b> NO  <b>Precondition 1 :</b>            Choose config : <b>MCP_MACH_DISPLAY</b> if current Value is :            &gt;= 1000  <b>Precondition 2 :</b>            Choose config : <b>MCP_IASBLANK_DISPLAY_READONLY</b> if            current Value is : = 0</p>	<p><b>MCP_MACH_DISPLAY :</b>  <b>Offset:</b> 6524  <b>Volume Type :</b> Float  <b>Size in Byte:</b> 4  <b>Transform:</b> \$*1000  <b>Display:</b> 3 digits <b>DECIMAL POINT</b> under the left 3th digit,  <b>Left Padding:</b> YES - SPACEBAR  <b>Compare:</b>  <b>If current volume is :</b> &gt;0 <b>set it to:</b> Round ( \$/10,0) ( <b>WITH</b>  <b>Decimal ) else:</b>  <b>Precondition 1 :</b>            Choose config : <b>MCP_IAS_DISPLAY</b> if current Value is : &lt;10  <b>Precondition 2 :</b>            Choose config :  <b>MCP_IASBLANK_DISPLAY_READONLY</b> if current Value is :            = 0</p>	<p><b>MCP_IASBLANK_DISPLAY:</b>  <b>Offset:</b> 6528  <b>Volume Type :</b> int  <b>Size in Byte:</b> 1  <b>Transform:</b>  <b>Display:</b> 3 digits,  <b>Left Padding:</b> YES - SPACE  <b>Compare:</b>  <b>If current value is :</b> = 1 <b>set it to:</b> Type 4xSPACE <b>else:</b>  <b>Precondition:</b>            Choose config : <b>MCP_IASBLANK_DISPLAY_READONLY</b> if            current Value is : = 1</p>
<p><b>MCP_IASBLANK_DISPLAY_READONLY</b>  <b>Offset:</b> 6528  <b>Volume Type :</b> int  <b>Size in Byte:</b> 1  <b>Transform:</b></p>	<p><b>MCP_IASOverspeedFlash:</b>  <b>Offset:</b> 6529  <b>Volume Type :</b> int  <b>Size in Byte:</b> 1  <b>Transform:</b>  <b>Display:</b> 1 ( 4th left of the IAS display setting) <b>Left Left</b>  <b>Padding:</b> NO  <b>Compare:</b>  <b>If current value is :</b> = 1 <b>set it to:</b> 8 <b>else: type</b> 1xSPACEBAR  <b>Precondition:</b>            Choose config :  <b>MCP_IASUnderspeedFlash</b> if current Value is : != A</p>	<p><b>MCP_IASUnderspeedFlash:</b>  <b>Offset:</b> 652A  <b>Volume Type:</b> INT  <b>Size in Bytes:</b> 1 byte  <b>Transform:</b>  <b>Display:</b> 1 digit  <b>Left Padding:</b> NO (The same display as Overspeed)  <b>Compare:</b>  <b>If current volume is :</b> = 1 <b>set it to:</b> A <b>else: type</b>            1xSPACEBAR  <b>Precondition:</b>            Choose config : <b>MCP_IASOverspeedFlash</b> " if current            Value is : != 8</p>

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## NUMERICAL (2) – 7 Segment Displays

2	PMDG CONFIG	MCP COURSE RIGHT	PMDG TYPE	INT: 2 BYTES	HEX VALUE	6522
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MobiFlight FSUIPC TAB

**Base Settings**

Offset:

Value Type:  Size in Bytes

Mask value with:   BCD Mode

**More Options**

Transform \$

MobiFlight COMPARE TAB

**Comparison Settings**

Apply Comparison to modify the current value

If current value is

Set it to

Else set it to

MobiFlight DISPLAY TAB

**Display Type**

Module

Use Type of

**Display Settings**

Addr/Connector  /

Number of Digits   Use Left Padding

Use display

1 2 3 4 5 6 7 8

Set decimal point

3	PMDG CONFIG	MCP HEADING	PMDG TYPE	INT 2 BYTES	HEX VALUE	652C
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MobiFlight FSUIPC TAB

**Base Settings**

Offset:

Value Type:  Size in Bytes

Mask value with:   BCD Mode

**More Options**

Transform \$\*1

MobiFlight COMPARE TAB

**Comparison Settings**

Apply Comparison to modify the current value

If current value is

Set it to

Else set it to

MobiFlight DISPLAY TAB

**Display Type**

Module

Use Type of

**Display Settings**

Addr/Connector  /

Number of Digits   Use Left Padding

Use display

1 2 3 4 5 6 7 8

Set decimal point



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## NUMERICAL (3) – 7 Segment Displays

4	PMDG CONFIG	MCP COURSE LEFT	PMDG TYPE	INT: 2 BYTES	HEX VALUE	6520
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**MobiFlight FSUIPC TAB**

Base Settings

Offset:	6520	Size in Bytes	2
Value Type:	INT	<input type="checkbox"/> BCD Mode	
Mask value with:	0xFFFF		

More Options

Transform \$

**MobiFlight COMPARE TAB**

Comparison Settings

Apply Comparison to modify the current value

If current value is

Set it to

Else set it to

**MobiFlight DISPLAY TAB**

Display Type

Module	Mobiflight Mega SN-09
Use Type of	Display Module

Display Settings

Addr/Connector	LedModule	/	1
Number of Digits	8	<input checked="" type="checkbox"/> Use Left Padding	0
Use display	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
	1 2 3 4 5 6 7 8		
Set decimal point	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

5	PMDG CONFIG	MCP ALTITUDE	PMDG TYPE	INT: 2 BYTES	HEX VALUE	652E
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<p><b>MCP_ALTITUDE_DISPLAY:</b></p> <p>Offset: 652E</p> <p>Volume Type : int</p> <p>Size in Byte: 2</p> <p>Transform:</p> <p>Display: 5</p> <p>Left Padding: YES SPACE</p> <p>Compare:</p> <p>If current volume is : &lt; 0 set it to: \$+65536 else: \$</p> <p>Precondition:</p> <p>Choose config : : MCP_ALTITUDE_DISPLAY_00000 if current Value is : &gt; 0</p>	<p><b>MCP_ALTITUDE_DISPLAY_00000:</b></p> <p>Offset: 652E</p> <p>Volume Type : int</p> <p>Size in Byte: 2</p> <p>Transform:</p> <p>Display: 5</p> <p>Left Padding: YES SPACE</p> <p>Compare:</p> <p>If current volume is : = 0 set it to: 00000 else: \$+65536</p> <p>Precondition:</p> <p>Choose config : : MCP_ALTITUDE_DISPLAY if current Value is : = 0</p>
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5	PMDG CONFIG	MCP V/S	PMDG TYPE	INT: 2 BYTES	HEX VALUE	6530
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## MCP\_VS\_DISPLAY:

Offset: 6530

Volume Type : int

Size in Byte: 2

Transform:

Display: 5

Left Padding: YES SPACE

Compare:

If current volume is : = 0 set it to: 0000 else: \$

Precondition:

Choose config : : MCP\_VS\_BLANK\_DISPLAY if current Value is : = 0

## MCP\_VS\_BLANK\_DISPLAY:

Offset: 6532

Volume Type : int

Size in Byte: 1

Transform:

Display: 5

Left Padding: YES SPACE

Compare:

If current volume is : = 1 set it to: Type 5\*SPACEBAR else: \$

Precondition:

Choose config : : MCP\_VS\_DISPLAY if current Value is : <-10000