## PEPPERL+ FUCHS

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Ident interface for Allen	Ordering code	MVI-F57-2HAB2		
Bradley RIO	-			
The Control Interface Unit with Allen Bradley RIO, connects directly to the Allen-Bradley	Nominal ratings: Suitable read/write heads	2 x MVH500-F15 or 2 x MVH2000-F15 or 2 x MVH5000-F50 or any combination		
Remote I/O Field Bus. The interface acts as a bus user, which behaves in the same way as an Allen Bradley remote-rack. This avoids	Serial interface Cable length RIO	3000 m for 57.6 kBaud 1000 m for 115.2 kBaud		
the use of communication sub-assemblies in the control system and reduces the amount of cabling.	Visual indicators	on request for 230.4 kBaud 16 LEDs on MVI-D2-2HRX 2 LEDs on KHD2-MVI-AB2		
- 100 % compatible with Allen Bradley Remote I/O network	4 free setable outputs	0 3 output		
- 2 Read/write heads connectable - 9 simple commands for easy	Connections	2 round 10 pin sockets for read/write head connections		
operation from the PLC	Supply voltage	24 VDC ± 10 %		
- Configuration as ¼ rack - Communication via block transfer	Supply current	1 A		
- Supports all status and error mes- sages of Ident-M System V control- ler	<b>Environmental conditions:</b> Operating temperature Storage temperature Humidity Protection class	273 Kelvin 333 Kelvin (0 °C +55 °C) 248 Kelvin 358 Kelvin (-25 °C +85 °C) max. 90 % relative humidity IP55		
	<b>Mechanical:</b> Dimensions Mounting Housing material Weight	400 mm (Width) x 200 mm (Height) x 123 mm (Depth) Direct wall mounting or wall mounting brackets Sheet steel, makrolon window Approx. 4800 g		

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Connectors for 2 Read/ write heads	head cable	2 Read/write		= clear RIO 2 = Shield RIO 3 = blue RIO Bus interface		PE = Protect - = GND + = 24 V Power supp	
Switch 1 Settings							
Switch 1		<b>S1</b> off on	must be off not allowed				
RIO data rate		S2	S3				
57.6 kBaud 115.2 kBaud		off off	off on				
230.4 kBaud		on	off				
RIO rack size		S4	S5				
1 <sup>1</sup> / <sub>4</sub> rack		off	off				
<b>RIO start quarter</b> 1. quarter		<b>S6</b> off	<b>S7</b> off				
2. quarter		off	on				
3. quarter		on	off				
4. quarter		on	on				
Switch 2 Settings							
Switch 2							
RIO last rack		S1					
no		off					
yes		on					
RIO rack address		<b>S2</b> off	S3 off		<b>S5</b> off	S6	S7
0		off	off		off	off off	off on
2		off	off		off	on	off
							• 8
. 62		on	on	on	on	- on	• 65%
63		on	on		on	on	on L
		011	511	011	on	011	• 00 • • off on second
							EOOC
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## **Commands**

C1

C0

Μ

## **BTW Control Word Format**

C2

0	1	1	1	0	0	H1	H0	C3	C2	C1	C0	0	0	0	М
Definiti	ions														
H1			Com	nmand is	s with re	spect to	o Antenr	na 1							
НО		Command is with respect to Antenna 0													

Command is with respect to Antenna 0

C3 Command Code

> On/Off bit defining the state of MVI-D2-2HRX outputs. Note that the M parameter is always "0" for all BTW except the ones that change the state of the MVI-D2-2HRX outputs.

Please note that the first byte can only be  $70_{hex}$ ,  $71_{hex}$  or  $72_{hex}$ . Depending on the antenna that is being used for the following command. System relevant commands that do not involve an antenna use  $70_{hex}$ , commands that utilize antenna 0 start with  $71_{hex}$ , and commands for antenna 1 start with 72<sub>hex</sub>.

Command	C3	C2	C1	C0	М	Control Word
Reset MVI-D2-2HRX	1	1	1	1	*	70F0
Read AB2 Software Version	1	1	1	0	*	70E0
Set Output 1 on/off	1	1	0	0	1	70C1 Turn on Output-1
	1	1	0	0	0	70C0 Turn off Output-1
Set Output 2 on/off	1	0	1	1	1	70B1 Turn on Output-2
	1	0	1	1	0	70B0 Turn off Output-2
Set Output 3 on/off	1	0	1	0	1	70A1 Turn on Output-3
	1	0	1	0	0	70A0 Turn off Output-3
Set Output 4 0n/off	1	0	0	1	1	7091 Turn on Output-4
	1	0	0	1	0	7090 Turn off Output-4
Initialize Data Carrier	0	1	0	1	*	7150 Initialize Data Carrier in the zone of
						Antenna 0 7250 Initialize Data Carrier in the zone of Antenna 1
Write Data Carrier	0	1	0	0	*	7140 <start><length><data> Write the <data string of <length> words to the Data Carrier in zone of Antenna 0, starting at address <start> <start> is the <b>byte address in hex</b>. <length> is the word length in hex and must be less th 3C<sub>hex</sub> (60<sub>dec</sub>). 7240<start><length><data> Write the <data> string of <length> words to the Data Carrier in zone of Antenna 1, starting at address <start></start></length></data></data></length></start></length></start></start></length></data </data></length></start>
Example: Write Data Carrier 7150 0015 0010 (.	using Aı 16 W	ntenna /ords of	0 startir Data	ng at byt )	e 15 <sub>hex</sub> wi	th a length of 10 <sub>hex</sub> words.
Read Data Carrier	0	0	1	0	*	7120 <start><length> Read a data string of <ler< td=""></ler<></length></start>
00						words from the Data Carrier in the zone of Ant 0, starting at address <start>. <start> is the <b>by</b> <b>address in hex</b>. <length> is the <b>word length ir</b> and must be less than 3C<sub>hex</sub> (60<sub>dec</sub>). 7220<start><length> Read a data string of <len bytes from the Data Carrier in the zone of Ant 1, starting at address <start>.</start></len </length></start></length></start></start>
Example: Read Data Carrier 7120 0100 000A	using A	ntenna	0 startii	ng at by	te 100 <sub>hex</sub> v	with a length of 0A <sub>hex</sub> words.