

The Application Note is pertinent to the Unidrive Family

Unidrive / UD74 Quick Setup for Interbus-S

Scope - This procedure applies to a Unidrive / UD74 combination using speed control and cyclic-data mappings set up by the Unidrive “*.DSH” Device Description file. Fieldbus control *requires* that sequencing “**Mode 4**” or “**Mode 3**” has been selected (#6.04 = 4 or 3). “**Mode 4**” is recommended and is the present default. This procedure also assumes that the Interbus-S Master has already been configured.

Instructions

Step 1 – Menu 8 Insure that any of the following parameter pointer locations do not values that conflict with Control Word control of the Unidrive. If a value of 6.29, 6.30, 6.31, 6.32, 6.33, or 6.34 is found in any of the following locations, set the value at that location to a value of zero (“0.00”).

Menu 8	If following value is found:	Then set to:
#8.10	6.29, 6.30, 6.31, 6.32, 6.33 or 6.34	0.00
#8.13	“ (same) ”	0.00
#8.16	“ (same) ”	0.00
#8.19	“ (same) ”	0.00
#8.21	“ (same) ”	0.00
#8.23	6.29, 6.30, 6.31, 6.32, 6.33 or 6.34	0.00

Step 2 – Menu 20 Insure that the following Menu 20 parameters are set to the required values:

Menu 20	Value	Comment
Note that the Node-ID is assigned by the Interbus-S Master Controller		
#20.01	121	Out Channel 2 to #1.21
#20.02	408	Out Channel 3 to #4.08
#20.03	201	In Channel 2 from #2.01
#20.04	402	In Channel 3 from #4.02
#20.06	9011	Out Channel 1 to #90.11 Control Word
#20.07	9011	In Channel 1 from #90.11 Status Word
Note that network data rate is fixed at 500 Kbs		

Step 3 – Menu 1 Insure that “**Digital Preset 1**” is selected as the speed reference source.

1. Check and set parameter #1.14 to a value of “3”.
2. Check and set parameter #1.15 to a value of “1”.

Step 4 – Save and activate

1. Save Menu 1 through Menu 19 by setting #x.00 = 1000 and press the red “reset” button on the Unidrive.
2. Save the Menu 20 values by setting #17.19 = 1 (resets itself back to zero).
3. Activate this configuration by setting #x.00 = 1070 and press the red “reset” button on the Unidrive.

Step 5 – Observe Normal Network Indications

Read Only Parameter #20.50 indicating network cycles per second, should not display zero value at this point.

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