Dynamic Mapping for AKD Modbus TCP Revision A 10/17/2016

Overview

In the AKD there are multiple lists of parameters with various starting Modbus addresses.

The given ranges are:

- 1. Modbus Parameter Table (starting address 0)
- 2. Modbus 64-bit Parameters to 32-bit mapping (starting address 2000)
- 3. Modbus Dynamically Mapped Parameters (starting address 8192)
- 4. AKD BASIC Modbus variables (starting address 5000)
- 5. Modbus Errors Stack (starting address 4354)

Contents Index	0 =			
Welcome Page	You are here: AKD Fieldbus Manuals > <u>Fieldbus M</u>	anuals > Modbus Manua	<pre> > Modbus</pre>	Parameter Table
Workbench User Manual				
AKD Parameter and Command Reference Guide	Madhua Daramatar Tahl			
AKD BASIC Programming Manual	Modbus Parameter Tabl	e		
AKD Fieldbus Manuals	Parameter	Modbus	ls 64-bit?	Attributes
Fleiddus Manuals		Register Address		
CANopen Object Dictionary	AIN.CUTOFF	0		32-bit
SynqNet Supported Parameters	AIN.DEADBAND	2		16-bit
Modbus Manual		4		32 hit
Modbus Dynamic Mapping				52-bit
Modbus Parameter Table	AIN.OFFSET	6		16-bit, signed
Modbus 64-bit Parameters to 32-bit Mapping	AIN.PSCALE	8	Yes	64-bit, signed
Modbus Errors				



You are here: AKD Fieldbus Manuals > Fieldbus Manuals > Modbus Manual > Modbus 64-bit Parameters to 32-bit Mapping

Modbus 64-bit Parameters to 32-bit Mapping

Parameter	Address	64-bit	Attributes
AIN.PSCALE_32	2000	Yes	low 32-bit word, signed
AOUT.PSCALE_32	2002	Yes	low 32-bit word
AOUT.VALUE_32	2004	Yes	low 32-bit word, signed
AOUT.VALUEU_32	2006	Yes	low 32-bit word, signed
CAP0.PLFB_32	2008	Yes	low 32-bit word, signed
CAP1 PLER 32	2010	Yes	low 32-bit word signed



Welcome Page	All AKD command parameter will require writing a "1" to trigger the command. Ex: DRV.EN is used to enable the drive. To trigger the command, see
Workbench User Manual	
AKD Parameter and Command Reference Guide	User Created Variables with Assigned Modbus Address Numbers
AKD BASIC Programming Manual	User variables can be assigned an Modbus address number. The range of available numbers is from 5000 to 5999. An example program:
Using the Program View	
Unsupported Parameters	Dim int2 as integer
AKD BASIC Language	Dim fitl as float Dim long
AKD BASIC Program Structure	MBInfo
Program Memory Space	\$MEMap32 (5001, int2) \$MEMap64 (5003, ion2)
Program Sections	SMBMapfloat(5007, flt1)
Main Program Subroutines Functions Interrupt Hanc	End
Language Definition	' Main Program
Statements	Main Setup some data to be read
Built in Functions	int2 = 262144
Expressions	fit1 = 1.234 Iong1 = 17179569184
Expression	End Main
Arraya and Euratian Barameter Lists	

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Contents Index	₿≣		
Welcome Page Workbench User Manual AKD Parameter and Command Reference Guide	Access	Through Modbus ne error list starts at register address 0x1102 (4354).	
AKD BASIC Programming Manual	Modbus Ad 4354	Error count	
AKD Fieldbus Manuals	4355	Error 1 : Register Address	
Fieldbus Manual	4356	Error 1: Error Code	
	4357	Error 2 : Register Address	
SyngNet Supported Parameters	4358	Error 2 : Error Code	
Modbus Manual		 Frror 125 · Denister Address	
Modbus Dynamic Mapping	4604	Error 125 : Error Code	
Modbus Parameter Table			
Modbus 64-bit Parameters to 32-bit Mapping	Modbus	Error Descriptions	
Modbus Errors			
 Modbus Dynamic Mapping Modbus Parameter Table 	0001	Unknown Fault!	

The AKD supports Modbus Function Codes 03 (Read Holding Registers) and 16 (Write Multiple Registers).

What is Dynamic Mapping?

• Dynamic Mapping allows the user to take parameters from different (and non-consecutive) ranges and order and put them in consecutive order.

For example (The following selected parameters were arbitrary for demonstrational purposes):

Reads: Current Position

PL.FB_32	2072	Yes	low 32-bit word, signed
1			

Current Velocity

<u>VL.FB</u>	856	Yes	low 32-bit word, signed

Write: Home.Dist (offset move on homing)

1				
	HOME.DIST_32	2048	Yes	low 32-bit word, signed

Home.Move (start a move)

HOME.MOVE	408	Command
		4

Following Error Threshold

Pl	ERRFTHRESH_32	2068	Yes	low 32-bit word
		· · · · · · · · · · · · · · · · · · ·	,	I

If Dynamic Mapping is not used then the above would require 2 individual reads and 3 individual writes. This is more taxing on the communications and the Ethernet port of the drive. If your list of parameters is more (i.e. 10 reads and 10 writes, etc.) eventually you may start seeing drive warnings of "Modbus Rate Too High". If Dynamic Mapping is used then it is possible to do one read for the 10 read parameters and 1 write for the 10 write parameters. This economizes your communications.

Besides communication efficiency another motivation for dynamic mapping is in the case where the Modbus Master's addressing and the drive's address is different in regards to high word/low word. By using Dynamic Mapping it is possible to do the word swapping in the drive instead of in the master which may clean up some of the programming code. Using the example parameters above:

Reads

Parameter Description	Static Address	Dynamic Address
PL.FB	2072	8192
	2073	8193
VL.FB	856	8194
	857	8195

Writes

Parameter	Static Address	Dynamic
Description		Address
HOME.DIST	2048	8200
	2049	8201
HOME.MOVE	408	8202
	409	8203
PL.ERRFTHRESH_32	2068	8204
	2069	8205

To implement use Workbench Terminal as follows:

Type "MODBUS.DYNMAP 1" to enable configuration mode of dynamic mapping.

Use the MODBUS.ADDRxxxx yyyy format to map parameters where xxxx is the dynamic mapping range of addresses and yyyy is the address from any of the other ranges.

Type "MODBUS.DYNMAP 0" to disable configuration mode of dynamic mapping (values will begin to pass from the original parameters to the dynamically mapped addresses).

Save To Device when done so the mapping is saved to the drive's non-volatile memory.



Now to look at the read data at the Modbus master (I'm using Modbus Poll).

Modbus Poll - Mbpoll1	Incorrect Competitive We
File Edit Connection Setup Functions Display View Window H	Help
🗅 😅 🖬 🎒 🗙 🛅 🖳 🏛 🕮 05 06 15 16 17 22 23	TC 🗵 😵 🌾
Mbpolli 🗆 🖬 🖾	Read/Write Definition
Tx = 613: Err = 0: ID = 1: F = 03: SR = 20ms	Slave ID: 1 OK
Alias 08190	Function: 03 Read Holding Registers (4x) Cancel
0	Address: 8192 Protocol address. E.g. 40011 -> 10
=	Quantity: 4
2 1	Sean Rate: 20 [me]
3 14299	Disable Mppy
4 0	Read/Write Disabled
5 -25497	Disable on error Read/Write Once
6	View
	Rows
	● 10 ○ 20 ○ 50 ○ 100 ○ Fit to Quantity
	Hide Alias Columns PLC Addresses (Base 1)
	Address in Cell

Now to format the viewed data to 32 bits

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<u> </u>	Mbpoll1				• 🔀	
Tx	= 2858: Err =	0: ID = 1: F = 0)3: SR = 20m	IS		
	Alias	08190			~	
0						
1					-	
2		79860			=	
3						
4		84229				
5						
					-	
					-	

-->PL.FB

79.878 [counts]

-->

VL.FB is going to vary in the value read.

Modbus Poll - Mbpoll1	the schedule Manual or 1991		
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Mbpoll1			Read/Write Definition
Tx = 2951: Err = 0: ID =	= 1: F = 16: SR = 20ms		Slave ID: 1 OK
Alias	08200	^	Function: 16 Write Multiple Registers Cancel
0	0		Address: 8200 Protocol address. E.g. 40011 -> 10
1		E	Quantity 6
2	0		
3			Scan Rate: 20 [ms] Apply
4	0		Disable Read Write Disabled
5			Disable on error Bead/Write Once
6		Ψ.	
			Rows I 10 20 50 100 Fit to Quantity
			Hide Alias Columns PLC Addresses (Base 1)

Now to validate the writes (I went ahead and formatted the viewed data to 32 bits):

First, I set the HOME.DIST value to 12345.

Nodbus P	oll - Mbp	oll1								
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Mbpoll1								23		
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Kollmorgen WorkBench										
File Edit View Tools	s Help									
Oevice Topology	Stop 0 - Service	2 - Position Mode	Disable & Clear Faul	ts Save To D	evice Discon	inect 🥌 Pai	nic			
A Settings Communicat COMMUNICAT	ion	This page is the	used to issue a homing cr	ommand. The ho	me command is u	used to zero th	e drives position.			
Modbus EtherNet	/IP	Select the type of homing 0 - Use current position	g motion you wish to use:	•						
Power W Regen		Deferrer Deiet								
Feedback 1		Reference Point			Position					
Foldback (0) Brake		Start P	osition = Home pos	ition	FUSILION					
Modulo		Sattings					Goto Drive Motio	on Status		
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Welocity Loop	p p	Deceleration:	10,922,851.328	(counts)/s^2			Done:	۲		
M Service Motio	on ulation (X9 Cfg) =	Direction:	1 - Positive 👻	_			Active:	Start		
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😋 Digital I/O	le Limit Switches	Position:	0.000	counts			Auto Homing	0 - Disabled	 Courses 	
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Motion Cap	e Table	Max Distance:	0.000	counts	Disabled wh	en value is 0.	Drive is in	IdulVe.		
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Drive Motion Sta Eaults and Warn	tus ings									

Next I executed a HOME.MOVE

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Alias 08200 0 12345 1 2 1 3	. [] (
Tx = 13881: Err = 0: ID = 1: F = 16: SR = 20ms	
Alias 08200 0 12345 1 2 1 3	
Alias 08200 0 12345 1 2 1 3	
0 12345 1 2 1 3	
1 2 1 3	
2 1 3	
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6	

월 Modbus Poll - Mbpoll1





Finally I set the following error threshold:

Modbu	is Poll - Mbp										
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Refer to Workbench Help for more details on Modbus TCP and Dynamic Mapping:

