

Commissioning IDENTControl Compact IC-KP2-1HB6-V15B Profibus-DP with a Siemens S7 PLC





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1. Installation GSD-File

Before starting the first commissioning the identification systems IDENTControl you need to install the GSD file. You can find the GSD file you on the CD "Identification Systems" which is enclosed the product. Alternatively you can download the file on the Pepperl+Fuchs Group website.

www.pepperl-fuchs.com

(Product search à IC-KP2-1HB6-V15B à 1831466.zip)

To install the GSD file you need to open the menu point "Options" a "Install GSD file" in the Simatic hardware configuration.

Options Window Hel	p
Customee	C01+AE+E
SCHEP/ RECEIPT	
Configure Network	
Symbol Table	Ctrl+Alt+T
SHORT GODAN CONT.	
Edit Catalog Profile	
Update Catalog	
Install HW Updates	
Install GSD file	
Findin Service & Sup	part

Afterwards you need to choose the GSD file out of the source list.



The GSD file will be transferred into the hardware catalog with the menu point "Options" à "Update Catalog"



2. Installation User Program

To install the user program you need to unpack the file "IC-KP2-1HB6.zip". For this you need to select the menu item "File" à "Unpack" in the Simatic Manager. Afterwards you can open the file by marking it and click the "Open"-button. After defining the storage space and the successful installation you can see the user program in the Simatic Manager window.

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3. Hardware configuration

In the hardware configuration you can customize the user program according to your PLC hardware.

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After that the commissioning of the IDENTControl to the Profibus Master system follows. For commissioning the IDENTControl you need drag the symbol "IC-KP2-1HB6" from the hardware catalog and drop it on the Master system. Then you need to define the Profibus telegram length with the help of the communication modules (i.e. In/Out 64 Byte). You also need to assign a slot to the module.



If you want to copy the function block into another application program it is useful also to copy the symbol table. This way you will be able to work with symbol information.

4. Adjustment of device parameters

You can open the device parameters by double-clicking the IDENTControl-symbol.



The device specific parameter "Data Hold Time" (DHT) defines the time in which the data in the data output cannot be overwritten. The value of the DHT should be the double time of the maximum cycle time of the PLC.

5. Function block "IDENTControl"

You can open the function block and the instance data block by executing the Call-command:

Call "IDENTControl", "InstDB"(symbolic description)

Or

Call FB32, DB32

If you would like to implement more than one IDENTControl to the PLC you can generate the necessary instance data blocks with the Call-command.

Call FB32, DB33

Call FB32, DB34 and so one.

In addition it is also possible to open the function block as a multiple instance.

The following picture shows how the function is opened and the configuration of the variables.

CALL IDENICONCROI	, INSCUB
IC_INPUT_Address	:=W#16#200
IC_OUTPUT_Address	:=W#16#200
Length_IN	:=64
Length_OUT	:=64
Timeout	:=T#4S
HeadlDataFixcode	:="HeadlDataFixcode"
HeadlSingleEnhance	d:="HeadlSingleEnhanced"
HeadlSpecialComman	d:="HeadlSpecialCommand"
HeadlRead	:="HeadlRead"
HeadlWrite	:="HeadlWrite"
HeadlQuit	:="HeadlQuit"
QuitErrorHeadl	:="QuitErrorHeadl"
IC_Command_on_Head	l:="IC_Command"
HeadlWordNum	:=15
HeadlWordAddress	:=W#16#0
HeadlTagType	:=W#16#3033
HeadlDone	:="HeadlDone"
HeadlNoDataCarrier	:="HeadlNoDataCarrier"
HeadlError	:="HeadlError"
HeadlBusy	:="HeadlBusy"
HeadlStatus	:="HeadlStatus"
HeadlReplyCounter	:="HeadlReplyCounter"
InitFinish	:="InitFinish"
SetRestart	:="SetRestart"

Name	Datentyp	Beschreibung
IC_INPUT_Address	WORD	Start address of the controller in the process area of the inputs (Input Address)
IC_OUTPUT_Address	WORD	Start address of the controller in the process area of the outputs (Out- put Address)
Length_IN	INT	Length of the Input telegram (length of the received Profibus telegram)
Length_OUT	INT	Length of the Output telegram (length of the sent Profibus telegram)
Timeout	TIME	Timer to control the response time of the system
RetrySingleCommand	INT	Number of repetitions of single commands if no tag was recognized
Head1DataFixcode	BOOL	grasp head 1 to 0:=Fixcode 1:=data area
Head1SingleEnhanced	BOOL	Execution on head 1 of 0:=Single 1:=Enhanced command
Head1SpecialCommand	BOOL	Execution of a special command on head 1 (positive edge); the command parameter needs to be defined before in the data struc- ture Head_1.SpecialCommand; the received data is the data structure Head_1.InData
Head1Read	BOOL	Execution of a read command on head 1 (positive edge); define com- mand parameter Head1WordNum and Head1Wordaddress; received data is in the data structure Head_1.InData
Head1Write	BOOL	Execution of a write command on head 1 (positive edge); define com- mand parameter Head1WordNum and Head1Wordaddress; writable data needs to be defined in the data structure

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Name	Datentyp	Beschreibung
		Head_1.OutData.DW115
Head1Quit	BOOL	Execution of the quit command on head 1 to abort the enhance com- mand (positive edge)
QuitErrorHead1	BOOL	Execution of the error routine on head 1 (positive edge)
IC_Command_Head1	BOOL	Execution of a special command of the controller (positive edge); com- mand is send on channel 0; define command parameter inside data structure Head_1.SpecialCommand; received data are inside the data structure Head_1.InData
Head1WordNum	INT	Number of allocated data blocks on head 1
Head1WordAddress	WORD	Start address of the memory area of the tag allocated on head 1
Head1TagType	WORD	Tag Type of head 1 (table of data carrier)
Head1Done	BOOL	New data exists (Enhanced) or command finished (Single) on head 1 (positive edge)
Head1NoDataCarrier	BOOL	No tag was in front of the head 1 during command execution
Head1Error	BOOL	Error occurred on head 1 (positive edge)
Head1Busy	BOOL	Command execution on head 1
Head1Status	BYTE	Status value of channel 1
Head1ReplyCounter	BYTE	Value of the reply counter channel 1
InitFinish	BOOL	Execution of controller initialization is finished (positive edge)
SetRestart	BOOL	Start of initialization (positive edge)

Example of the parameterization of the communication parameter:

In the hardware configuration the communication module "64In / 64 Out Bytes" is chosen. The process area of the Inputs (Input Address) starts at address 512 and finished at address 575 and has a length of 64 Bytes. The process area of the outputs (Output Address) starts at 512 finishes at address 575 and has a length of 64 Bytes. In this case you have the following parameterizations of the function block:

IC_INPUT_Address	:=W#16#200
IC_OUTPUT_Address	:=W#16#200
Length_IN	:=64
Length_OUT	:=64

Annotation:

If you choose a communication module for read-only mode (f.e. "64 In / 4 Out Bytes") the output address ("IC_OUTPUT_Address") has to be completely in the process output area. When using a CPU of the S7-300 line the process output area ranges from 0 to 256. The S7-400 line has a length of the process output area with a length of 0 to 512.

Please check the maximal telegram length of your CPU. The CPU S7-315-2DP has got a telegram length of 32 Bytes. The CPUs of the S7-400 line are able to communicate with a telegram length of 64 Bytes.

6. Error and Device Diagnostic

Most of the errors occur during the first implementation (initialization) of the function block. If the start of the initialization (positive edge of SetRestart) the bit InitFinish is not automatically set to true, an error has occurred during the execution of the initialization. The main reason for such an error is a difference in the parameterization of the hardware configuration and the communication parameters of the function block. This can be the parameters of the I/O area or a different parameterization telegram length. Another reason can be a wrong defined Tag Type (Head1TagType). Another option of errors is the execution of commands. In this case the bit Head1Error is set to true. Afterwards it is possible to make a diagnosis with the help of the listed error table. Reasons for such errors could be wrong defined Tag Type. A wrong parameterized Tag Type is indicated with the status value 04hex inside the variable Head1Status.

Name	Data Type	Description	Repair
Head1Error	BOOL	Error on head 1	
Head_1.InvalidR esponse	BOOL	Send and received command telegram are not identical	Check of the Data Hold Time; Check the I/O con- figuration
Head_1.Timeout Occured	BOOL	Timer to control the response time of the controller is run out. Slave does not answer in the defined time period.	Enlarge the value of the variable Timeout if you have a large cycle time.
Head_1.Error_S FC_14	BOOL	Error while reading data from the process area	Check of the variable Head_1.Ret_Val_SFC14. Check of the parameterized I/O Address and telegram length.
Head_1.Error_S FC_15	BOOL	Error while writing data to the process area.	Check of the variable Head_1.Ret_Val_SFC15. Check of the parameterized I/O Address and telegram length.
Head_1.Ret_Val _SFC14	WORD	Error value while executing the SFC14	W#16#8090 W#16#80B1 Check of the parameterized I/O Address and telegram length (more information inside the sys- tem help of the SFC14)
Head_1.Ret_Val _SFC15	INT	Error value while executing the SFC15 (convert the value in hex format)	W#16#8090 W#16#80B1 Check of the parameterized I/O Address and telegram length (more information inside the sys- tem help of the SFC15)
Head1Status	BYTE	Status value of the last re- ceived data of channel1	Check the table status values.
Mem- ory.InData.Statu s	BYTE	Status value of the last re- ceived data of channel1	Check the table status values.

The diagnosis data (Slave Diagnosis) of the IDENTControl will be read with the help of the system function SFC13"DPNRM_DG" out of the diagnosis address. The address will be automatically allocated during the slaves' configuration. You can see the address by double clicking the IDENTControl symbol.



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The length of the diagnosis data is 48 Byte. In the user program the diagnosis data will save inside the DB2. It is recommended to copy this diagnosis address into the application program. This way different device parameters (like software dates) can checked in an easily. Following you can find the diagnosis read from address 4092 (=0xFFC).

	υ	"RD_SLAVE_DIAG"
	SPBN	DIAG
	CALL	"DPRD_DIAG"
	REQ	:="PD_SLAVE_DIAG"
	LADD	R :=W#16#FFC
	RET	VAL:=MV8
	RECO	RD :=P#DB2.DBX0.0 BYTE 48
	BUSY	:=H4.0
11	R	M 4.0
	R	"RD SLAVE DIAG"
DIAG:	NOP	0



7. Examples of command executions

Initialization: (with data carrier IPC03)

Fix of the data carrier (Tag Type): Head1TagType:= W#16#3033 (IPC03)	
 Start of the Initialization: SetRestart: = 1 (positive edge)	

Initialization executes: Head1Busy:= 1

Initialization finished: InitFinish: = 1 (positive edge) Head1Done:= 1

Single Read Fixcode: (head 1)



Enhanced Read Fixcode: (head 1)



Command finished: Head1Done:= 1 (positive edge) Head1Busy:= 0

Single Read Words: (head 1; 15 data blocks starting at address 0)

	Fix the command parameter:
	Head1WordNum:= 15 (number of user data blocks)
	Head1WordAddress:= 0 (memory address)
	Head1SingleEnhanced:= 0
	Head1DataFixcode:= 0
_	

Start of the command execution: Head1Read:= 1 (positive edge)

> Command executes: Head1Busy:= 1

Command finished -> Data received: Head1Busy:= 0 Head1NoDataCarrier:= 0 Head1Done:= 1 (positive edge) User data: Head_1.InData.UserData Command finished -> no data carrier exists: Head1Busy:= 0 Head1NoDataCarrier:= 1 Head1Done:= 1 (positive edge) User data: None

Enhanced Read Words: (head 1; 15 data blocks starting at address 0)

Fix the command parameter: Head1WordNum:= 15 (number of user data blocks) Head1WordAddress:= 0 (memory address) Head1SingleEnhanced:= 1 Head1DataFixcode:= 0

> Start of the command execution: Head1Read:= 1 (positive edge)

> > Command executes: Head1Busy:= 1

Data received and command active: Head1Busy:= 1 Head1NoDataCarrier:= 0 Head1Done:= 1 (positive edge) User data: Head_1.InData.UserData

Data carrier moves out of the read area and no tag in front of the head: Head1Busy:= 1 Head1NoDataCarrier:= 1 Head1Done:= 0 (positive edge) User data: None No Tag in front of head 1 and command active: Head1Busy:= 1 Head1NoDataCarrier:= 1 Head1Done:= 0 (positive edge) User data: None

Data carrier moves into the read area and data read in: Head1Busy:= 1 Head1NoDataCarrier:= 0 Head1Done:= 1 (positive edge) User data: Head_1.InData.UserData

Abort Enhanced command: Head1Quit:= 1

Command finished: Head1Done:= 1 (positive edge) Head1Busy:= 0

Single Write Words: (head 1; 15 data blocks starting at address 0)

Fix the command parameter: Head1WordNum:= 15 (number of user data blocks) Head1WordAddress:= 0 (memory address) Head1SingleEnhanced:= 0 Head1DataFixcode:= 0			
Define user data inside out data field: Head_1.OutData.UserData := XXXX			
Start of the command execution: Head1Write:= 1 (positive edge)			
Command executes: Head1Busy:= 1			
Command finished -> Data written Head1Busy:= 0 Head1NoDataCarrier:= 0 Head1Done:= 1 (positive edge)	Command finished -> no data carrier exists: Head1Busy:= 0 Head1NoDataCarrier:= 1 Head1Done:= 1 (positive edge)		

Enhanced Write Words: (head 1; 15 data blocks starting at address 0)



Command finished: Head1Done:= 1 (positive edge) Head1Busy:= 0



Single Write Fixcode: (head 1; IPC11)

Fix the command parameter:
Head_1.SpecialCommand.CommandCode:= 0x1F
Head1.SpecialCommand.Channel:= 0x50 (Length of the Fixcode)
Head_1.SpecialCommand.Parameter1:= FixType (High Byte)
Head_1.SpecialCommand.Parameter2:= FixType (Low Byte)
Head_1.SpecialCommand.Parameter3:= FixCode Byte 1
Head_1.SpecialCommand.Parameter4:= FixCode Byte 2
Head_1.SpecialCommand.Parameter5:= FixCode Byte 3
Head_1.SpecialCommand.Parameter6:= FixCode Byte 4
Head_1.SpecialCommand.Parameter7:= FixCode Byte 5

Start command execution: Head1SpecialCommand:= 1 (positive edge)

> Command executes: Head1Busy:= 1

Command finished: Head1Done:= 1 (positive edge) Head1Busy:= 0

Command List (Prefetch): (head 1)

With the help of the command list it is possible to execute different commands successively. At first you need to open the command list. Afterwards you need to transfer the commands which have to be performed and then close the command list. The list will be executed when you activate the list in Single or Enhanced mode. The command list will be stored volatile. The opening, closing and the activation as well as the transfer of the performed commands will be executed with the help of the Special-Command.

Open the Command List:



After the opening of the command list you need to transfer the performed commands with the help of the SpecialCommand to the controller. Afterwards first command Enhanced Read Fixcode and second command Enhanced Read Words are parameterized.



Command 1: Enhanced Read Fixcode head 1

Fix th Hea H	ne command parameter: Enhance Read Fixcode ad_1.SpecialCommand.CommandCode := 0x01 Head_1.SpecialCommand.Channel := 0x00
Start	t command execution: Transfer of the command Head1SpecialCommand := 1 (positive edge)
	Command executes: transfer is active Head1Busy := 1
	Command finished: transfer finished Head1Done := 1 (positive edge) Head1Busy := 0

Command 2: Enhanced Read Words



Start command execution: Transfer of the command Head1SpecialCommand := 1 (positive edge)

> Command executes: transfer is active Head1Busy := 1

Command finished: transfer finished Head1Done := 1 (positive edge) Head1Busy := 0

The number of the performed commands inside the command list is 10. The parameterization of the command list is finished by closing of the command list.

Closing command list:



The execution of the command list will be started by activating in Single or Enhanced Mode.

Activating with Single Mode:

Fix the command parameter: Activating Single Mode Head_1.SpecialCommand.CommandCode := 0xAC Head_1.SpecialCommand.Channel := 0x00 Head_1.SpecialCommand.Parameter1 := 0x00 (ListNo) Head_1.SpecialCommand.Parameter2 := 0x02 (ListModus)	
Start command execution: Transfer of the command Head1SpecialCommand := 1 (positive edge)	
Command executes: transfer is active Head1Busy := 1	
Command finished: transfer finished Head1Done := 1 (positive edge) Head1Busy := 0	

After the activation of the command list the commands will be executed. The read in data will be available inside the data field Head_1.InData.UserData. If a tag is in the reading range the status (Head1Status) of every response telegram has the value 0x00. To verify the different responses you need to check the ReplyCounter (Head1ReplyCounter). By receiving a new telegram the value of this variable changes based on the previous telegram. After finishing the cycle of the command list you get a response with the Status (Head1Status) value of 0x0F. If you activate the command list in Single mode, the commands will be executed once. After the last telegram (Head1Status = 0x0F) the execution is automatically stopped. By activating in Enhanced Mode the execution of the command list starts again with the first command after receiving the last telegram.

Name	Tag Type	Command	Fixcode	Data	Word Address	frequency
IPC02	W#16#3032	Read Fixcode	5 Byte	-	-	125kHz
IPC03	W#16#3033	Read Fixcode Read Words Write Words	4 Byte	116 Byte	0000001C	125kHz
IPC11	W#16#3131	Read Fixcode Write Fixcode	5 Byte	-	-	125kHz
IPC12	W#16#3132	Read Fixcode Read Words Write Words	4 Byte	8192 Byte	000007FF	125kHz
IDC	W#16#3530	Read Words Write Words Read Fixcode Write Fixcode Read Special Fixcode Write Special Fixcode	7 Byte Fixcode 6 Byte Special Fixcode	128 Byte	0000001F	250kHz
ICC	W#16#3532	Read Fixcode	7 Byte	-	-	250kHz
IQC21	W#16#3231	Read Fixcode Read Words Write Words	8 Byte	112 Byte	0000001B	13,56MHz
IQC22	W#16#3232	Read Fixcode Read Words Write Words	8 Byte	256 Byte	0000003F	13,56MHz
IQC23	W#16#3233	Read Fixcode Read Words Write Words	8 Byte	224 Byte	00000037	13,56MHz
IQC24	W#16#3234	Read Fixcode Read Words Write Words	8 Byte	928 Byte	000000E7	13,56MHz
IQC31	W#16#3331	Read Fixcode	8 Byte	32 Byte	00000007	13,56MHz

8. Table data carrier



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		Read Words Write Words				
IQC33	W#16#3333	Read Fixcode Read Words Write Words	8 Byte	2000 Byte	000000F9	13,56MHz
IQC35	W#16#3335	Read Fixcode Read Words Write Words	8 Byte	256 Byte	0000003F	13,56MHz
MVC	W#16#3630	Read Fixcode Read Words Write Words	8 Byte	7552 Byte	0000075F	2,45GHz

9. Table Status values

Head1Status	Meaning	Repair	
0x00	Command executed with- out errors	None; next command can be sent to this channel	
0xFF	Command in process	Command execute from the head in progress; a command can be sent to another channel (not to the same)	
0x01	Battery status is low (only MVC Tags)	Data will be sent in the same telegram; change the battery or the whole tag	
0x04	Incorrect or incomplete command or parameter not in valid range	Check the command parameters and the defined Tag Type (IQC33 has got even numbered WordNum); check the installation of the head (is the head grounded; shielded read head cable)	
0x05	No data carrier in detection range	Check the distance between tag and head; check the installation of the head (is the head grounded; shielded read head cable)	
0x06 Hardware error; no head is connected to this channel; V1-W); check the LED of the head (shielded of the head is defective execute Initialization with correct Tag T		Check the cable of the head (shielded cable named V1-G-XM-PUR ABG- V1-W); check the LED of the head (switched off: head damaged; blinking: execute Initialization with correct Tag Type; constant: head is OK)	
0x07	Internal device error	Internal memory overflow (reduce the Data Hold Time)	
0x09	parameterized data carrier type does not match to the connected read head	e Check the parameterized Tag Type	
0x0F	Last telegram of command list	None;	
0x20	Reset was executed	Error sent by the bus interface; signals that the controller is ready for command executions	
0x40	Incorrect or incomplete command or parameter not in valid range Error sent by the bus interface; Check the command parameter defined Tag Type (IQC33 has got even numbered WordNum); installation of the head (is the head grounded; shielded read he		
0x60	Hardware error; no head is connected to this channel; head is defective	Error sent by the bus interface; Check the cable of the head (shielded ca- ble named V1-G-XM-PUR ABG-V1-W); check the LED of the head (switched off: head damaged; blinking: execute Initialization with correct Tag Type; constant: head is OK)	
0x70	Internal device error	Internal memory overflow (reduce the Data Hold Time)	

10. Table version information

Version	Date	Change Function Block	Change Documentation
2.0	18.11. 2008	 Change from 4-Channel version to 2-Channel Version Replacement of the IN-Variable "IDENTControlAddress" with the IN-Variables INPUT/OUTPUT_Address and INPUT/OUTPUT_Length Output data length of 4 Bytes possible by implementation of SFC81 Entering the OUT-Variables Done; NoDataCarrier; Busy and Error 	- Initial edition
2.1	28.02. 2009	 Connecting variable Memory.Error_SFC_14 with variable Head1(2)Error Change of the check of the variables Head_1(2).ExistTC and Head_1(2).NotExist by parameterisation of the commands -> Triggermode Implementation of the Status check of value 0x0F -> last tele- gram of the command list Change of the identity check of the Input and Output data field -> by execution of the command list the Input and Output datafield are not identical Reset of the variable Head_1(2).QuitError by execution of the Reset and the Quit-Error routine. Implementation of new symbolic names of the user data fields of 	 Implement new picture with the overview of the vari- ables of the FB (page 5) Implement new variables in the table with the function- ality (page 5-6) Information about the dif- ferent telegram length of the CPUs lines (page 7) Change of the name of the status variable (page 7-8)



i)ENTControl

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		the Input and Output data fields -	
		>Head_1(2).InData/OutData.UserData	
		 Implementation of a check of the value of the variable 	
		Head1(2)WordNum -> if value higher than 15 the variable	
		Head1(2)Error will be set	
		- Implementation of the Outdata variable Head1(2)Status and	
		Head1(2)ReplyCounter à Battery status and command list	
		- Change of the direct addressing in network 8 (by then it was only	
		possible to name the instance data block with DB32)	
		- Implementation of the address register 2 at the allocation of the	 Implement a new picture of
		pointer of the SFC14/15	the call from the function
2.2	01.12.	- Implement text libraries (German and English)	block (page 5)
2.2	2009	- Change of the creation of the Togglebit for the next sending	 Note that the function block
		command. Now the new one will created by inverting of the last	is able to called as a multi
		sending one.	instance (page 5)
		- If a Error occurs (Head1Error) no new command will excepted.	
		The Error have to be receipted firstly	