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	Dealt with by-Utfärdare	Telephone-Telefon-nr		
	Sven-Erik Karlsson	+46 21 187050		
PE1376B Firmware version 2	Read ModbusTCP – Drive Link communication APC to ACV700/DCV700			

1. GENERAL

PE1376B is a protocol converter designed to read data traffic on ABB Drive Link Bus communication and make the data available on ModBus TCP.

The unit is enclosed in a metal box with connection terminal for Power supply. Connector type 9 pins Dsub for Service port RS232.

Modbus TCP connection is made with RJ45 Ethernet connector.

2. TECHNICAL DESCRIPTION

2.1 Dimension and mounting

To obtain the best immunity to electric noise the PE1376B must be electrically connected to cubicle through 4 M5 screws in each corner (M5 Screw pos 220mm x135mm).

Dimensions

Size: 240mm x 145mm (w x h)

Required mounting deep: 35mm



2.2 Technical data

Auxiliary Power

+24V DC (12-30V DC), typical 170mA, at startup 1A 10ms, Max fuse: 4A

Drive Link Communication

PE1376B is only listening on Drive Link Protocol and can handle up to 4 ACV700/DCV700. PE1376B is connected between the APC and the opticam distributor with 1.0mm plastic fiber POF

Transmission speeds 1.5Mbit/s

Communication to Modbus TCP

The AnyBus S ModbusTCP card is connected to Modbus TCP with RJ45 Ethernet connector.

Modscan32 program from WinTECH has been used when testing the module.

Use Modbus Point type= 03: Holding register

Connect using Remote TCP/IP Server.

IP address default in module 192.168.1.20 (Change if needed)

Enclosure class

IP00

Environmental data

Operation +5..+40 degrees C., Storage -40..+70 degrees C.

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2.3 Strapping

STRAPPING	DEFAULT	FUNCTION
B3	OFF	High Drive link transmitter intensity to APC
B4	ON	Medium Drive link transmitter intensity to APC
B5	OFF	Low Drive link transmitter intensity to APC
B6	OFF	High Drive link transmitter intensity to SPLITTER
B7	ON	Medium Drive link transmitter intensity to SPLITTER
B8	OFF	Low Drive link transmitter intensity to SPLITTER

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2.3 Status indications on PE1376B board

A red Led is indication Internal Program run error.

The communication status is indicated on a two-segment display, which will indicate the actual status and error.

Digit 1	Digit 2	Description
P		Initiation phases, (The Red Led is flashing during initiation.)
	1	1=Waiting for AnyBus S card to startup
	2	2=Soft Reset of AnyBys S card
	3	3=Waiting for AnuBus S reset
	4	4=Hardware check of AnyBus S card
	5	5=StartInit Order to AnyBus S card
	6	6=Initiation of Buffer size of AnyBus S card
	7	7=Saving of Net configuration
	8	8=Reading Net configuration
	9	9=End of initiation of AnyBus S card
	a	a=Open Parameter file
	b	b=Close Parameter file
	c	c=Read Parameter file
d	d=Write parameter file	
L		Display of IP addr, Subnet mask and Gateway addr This sequence will be displayed at startup of PE1376B
	0	Indication of first byte of Actual IP Hex code eg 192, Hex C0
	1	Indication of second byte of Actual IP Hex code eg 168, Hex A8
	2	Indication of third byte of Actual IP Hex code eg 1, Hex 01
	3	Indication of fourth byte of Actual IP Hex code eg 20, Hex 14
	4	Indication of first byte of Actual Subnet maskHex code eg 255, Hex FF
	5	Indication of second byte of Actual Subnet maskHex code eg 255, Hex FF
	6	Indication of third byte of Actual Subnet maskHex code eg 255, Hex FF
	7	Indication of forth byte of Actual Subnet maskHex code eg 0, Hex 00
	8	Indication of first byte of Actual Gateway addr Hex code eg 0 Hex 00
9	Indication of second byte of Actual Gateway addr Hex code eg 0 Hex 00	
A	Indication of third byte of Actual Gateway addr Hex code eg 0 Hex 00	
B	Indication of fourth byte of Actual Gateway addr Hex code eg 0 Hex 00	
X	Y	X is DriveLink node 1-4
		Y=0 No TCP IP connection
		Y=1 No communication on DriveLink
		Y=2 No data detected from DriveLink Slave, No TCP IP connection
		Y=3 No data detected from DriveLink Slave
		Y=4 No data detected from DriveLink Master, No TCP IP connection
		Y=5 No data detected from DriveLink Master
		Y=6 DriveLink ok but no TCP IP connection
Y=7 Normal data detect from DriveLink Master and Slave		
Y	Z	11-13 Error at software reset of AnyBus-S module
		21-23 Error at Hardware testt of AnyBus-S module
		31-33 Error at Start Init of AnyBus S
		41-43 Error at Save Flash command
		51-53 Error at Enable Web config command
		61-63 Error at Read command from Flash
		71-73 Error at command Write Net config
		81-83 Error at command Read Net config
		91-93 Error at Any Init command
		94-96 Error at End Init command to AnyBus-S module
		a1-a2 Error at Open file command
		a3-a4 Error at Close file command
		a5-a6 Error at Read file command
a7-a8 Error at Write file command		

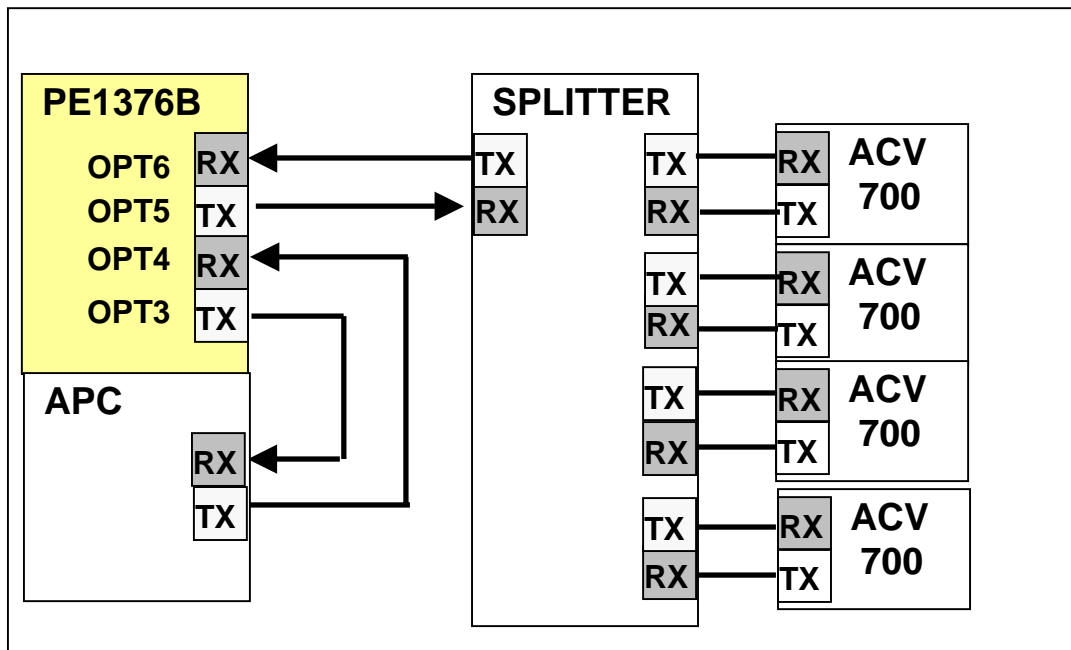
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**Read ModbusTCP – Drive Link communication
APC to ACV700/DCV700**

2.4 Connections

TERMINAL	FUNCTION
P1	Chassi
P2	+24V DC Power supply
P3	0V
9 pole Dsub	Service aid, RS232 19200 baud Modbus RTU slave
2	Txd RS232
3	Rxd RS232
5	0V
RJ45	Standard Ethernet connector for Modbus TCP

The PE1376B is connected between APC and the splitter



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2.5 Mapping of Signals from/to ACV700/DCV700 ACV/DCV700 Communication Status

Data from APC Master to ACV700 / DCV700		Modbus TCP data
Addr 1	Communication Data detected to ACV/DCV700	Bit0 Word addr 40257
Addr 1	Communication Data detected from ACV/DCV700	Bit1 Word addr 40257
Addr 2	Communication Data detected to ACV/DCV700	Bit2 Word addr 40257
Addr 2	Communication Data detected from ACV/DCV700	Bit3 Word addr 40257
Addr 3	Communication Data detected to ACV/DCV700	Bit4 Word addr 40257
Addr 3	Communication Data detected from ACV/DCV700	Bit5 Word addr 40257
Addr 4	Communication Data detected to ACV/DCV700	Bit6 Word addr 40257
Addr 4	Communication Data detected from ACV/DCV700	Bit7 Word addr 40257

ACV/DCV700 Node 1

Data from Slave ACV700 / DCV700 to APC		Modbus TCP data
	DSa Cyclic dataset number from ACV700/DCV700	Word addr 40001 High
	DSb Cyclic dataset number from ACV700/DCV700	Word addr 40001 Low
	DSc Cyclic dataset number from ACV700/DCV700	Word addr 40002 High
	Not tracked Dataset number from ACV700/DCV700	Word addr 40002 Low
DRREC(0) DS91	Basic Data 1	Word addr 40003
	Basic Data 2	Word addr 40004
	Basic Data 3	Word addr 40005
DRREC(1) DSa	Normal Cyclic Data 1	Word addr 40006
	Normal Cyclic Data 2	Word addr 40007
	Normal Cyclic Data 3	Word addr 40008
	Normal Cyclic Data 4	Word addr 40009
	Normal Cyclic Data 5	Word addr 40010
	Normal Cyclic Data 6	Word addr 40011
	Normal Cyclic Data 7	Word addr 40012
	Normal Cyclic Data 8	Word addr 40013
DRREC(1) DSb	Normal Cyclic Data 1	Word addr 40014
	Normal Cyclic Data 2	Word addr 40015
	Normal Cyclic Data 3	Word addr 40016
	Normal Cyclic Data 4	Word addr 40017
	Normal Cyclic Data 5	Word addr 40018
	Normal Cyclic Data 6	Word addr 40019
	Normal Cyclic Data 7	Word addr 40020
	Normal Cyclic Data 8	Word addr 40021
DRREC(1) DSc	Normal Cyclic Data 1	Word addr 40022
	Normal Cyclic Data 2	Word addr 40023
	Normal Cyclic Data 3	Word addr 40024
	Normal Cyclic Data 4	Word addr 40025
	Normal Cyclic Data 5	Word addr 40026
	Normal Cyclic Data 6	Word addr 40027
	Normal Cyclic Data 7	Word addr 40028
	Normal Cyclic Data 8	Word addr 40029

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ACV/DCV700 Node 1

Data from APC Master to ACV700 / DCV700		Modbus TCP data
	DSf Cyclic dataset number to ACV700/DCV700	Word addr 40030 High
	DSg Cyclic dataset number to ACV700/DCV700	Word addr 40030 Low
	DSh Cyclic dataset number to ACV700/DCV700	Word addr 40031 High
	Not tracked Dataset number to ACV700/DCV700	Word addr 40031 Low
DRTRA(0) DS90	Basic Data 1	Word addr 40032
	Basic Data 2	Word addr 40033
	Basic Data 3	Word addr 40034
DRTRA(1) DSf	Normal Cyclic Data 1	Word addr 40035
	Normal Cyclic Data 2	Word addr 40036
	Normal Cyclic Data 3	Word addr 40037
	Normal Cyclic Data 4	Word addr 40038
	Normal Cyclic Data 5	Word addr 40039
	Normal Cyclic Data 6	Word addr 40040
	Normal Cyclic Data 7	Word addr 40041
	Normal Cyclic Data 8	Word addr 40042
DRTRA(1) DSg	Normal Cyclic Data 1	Word addr 40043
	Normal Cyclic Data 2	Word addr 40044
	Normal Cyclic Data 3	Word addr 40045
	Normal Cyclic Data 4	Word addr 40046
	Normal Cyclic Data 5	Word addr 40047
	Normal Cyclic Data 6	Word addr 40048
	Normal Cyclic Data 7	Word addr 40049
	Normal Cyclic Data 8	Word addr 40050
DRTRA(1) DSh	Normal Cyclic Data 1	Word addr 40051
	Normal Cyclic Data 2	Word addr 40052
	Normal Cyclic Data 3	Word addr 40053
	Normal Cyclic Data 4	Word addr 40054
	Normal Cyclic Data 5	Word addr 40055
	Normal Cyclic Data 6	Word addr 40056
	Normal Cyclic Data 7	Word addr 40057
	Normal Cyclic Data 8	Word addr 40058
	CONNECTSTATUS ACV/DCV700 see separate description	Word addr 40059
	CON_STS see separate description	Word addr 40060
	TC_STS see separate description	Word addr 40061
	NRR_DS	Word addr 40062
	NRT_DS	Word addr 40063
	TIMEOUT counter drive link, Number of timeouts	Word addr 40064

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Read ModbusTCP – Drive Link communication APC to ACV700/DCV700

ACV/DCV700 Node 2

Data from Slave ACV700 / DCV700 to APC		Modbus TCP data
	DSa Cyclic dataset number from ACV700/DCV700	Word addr 40065 High
	DSb Cyclic dataset number from ACV700/DCV700	Word addr 40065 Low
	DSc Cyclic dataset number from ACV700/DCV700	Word addr 40066 High
	Not tracked Dataset number from ACV700/DCV700	Word addr 40066 Low
DRREC(0) DS91	Basic Data 1	Word addr 40067
	Basic Data 2	Word addr 40068
	Basic Data 3	Word addr 40069
DRREC(1) DSa	Normal Cyclic Data 1	Word addr 40070
	Normal Cyclic Data 2	Word addr 40071
	Normal Cyclic Data 3	Word addr 40072
	Normal Cyclic Data 4	Word addr 40073
	Normal Cyclic Data 5	Word addr 40074
	Normal Cyclic Data 6	Word addr 40075
	Normal Cyclic Data 7	Word addr 40076
	Normal Cyclic Data 8	Word addr 40077
DRREC(1) DSb	Normal Cyclic Data 1	Word addr 40078
	Normal Cyclic Data 2	Word addr 40079
	Normal Cyclic Data 3	Word addr 40080
	Normal Cyclic Data 4	Word addr 40081
	Normal Cyclic Data 5	Word addr 40082
	Normal Cyclic Data 6	Word addr 40083
	Normal Cyclic Data 7	Word addr 40084
	Normal Cyclic Data 8	Word addr 40085
DRREC(1) DSc	Normal Cyclic Data 1	Word addr 40086
	Normal Cyclic Data 2	Word addr 40087
	Normal Cyclic Data 3	Word addr 40088
	Normal Cyclic Data 4	Word addr 40089
	Normal Cyclic Data 5	Word addr 40090
	Normal Cyclic Data 6	Word addr 40091
	Normal Cyclic Data 7	Word addr 40092
	Normal Cyclic Data 8	Word addr 40093

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Read ModbusTCP – Drive Link communication APC to ACV700/DCV700

ACV/DCV700 Node 2

Data from APC Master to ACV700 / DCV700		Modbus TCP data
	DSf Cyclic dataset number to ACV700/DCV700	Word addr 40094 High
	DSg Cyclic dataset number to ACV700/DCV700	Word addr 40094 Low
	DSh Cyclic dataset number to ACV700/DCV700	Word addr 40095 High
	Not tracked Dataset number to ACV700/DCV700	Word addr 40095 Low
DRTRA(0) DS90	Basic Data 1	Word addr 40096
	Basic Data 2	Word addr 40097
	Basic Data 3	Word addr 40098
DRTRA(1) DSf	Normal Cyclic Data 1	Word addr 40099
	Normal Cyclic Data 2	Word addr 40100
	Normal Cyclic Data 3	Word addr 40101
	Normal Cyclic Data 4	Word addr 40102
	Normal Cyclic Data 5	Word addr 40103
	Normal Cyclic Data 6	Word addr 40104
	Normal Cyclic Data 7	Word addr 40105
	Normal Cyclic Data 8	Word addr 40106
DRTRA(1) DSg	Normal Cyclic Data 1	Word addr 40107
	Normal Cyclic Data 2	Word addr 40108
	Normal Cyclic Data 3	Word addr 40109
	Normal Cyclic Data 4	Word addr 40110
	Normal Cyclic Data 5	Word addr 40111
	Normal Cyclic Data 6	Word addr 40112
	Normal Cyclic Data 7	Word addr 40113
	Normal Cyclic Data 8	Word addr 40114
DRTRA(1) DSh	Normal Cyclic Data 1	Word addr 40115
	Normal Cyclic Data 2	Word addr 40116
	Normal Cyclic Data 3	Word addr 40117
	Normal Cyclic Data 4	Word addr 40118
	Normal Cyclic Data 5	Word addr 40119
	Normal Cyclic Data 6	Word addr 40120
	Normal Cyclic Data 7	Word addr 40121
	Normal Cyclic Data 8	Word addr 40122
	CONNECTSTATUS ACV/DCV700 see separate description	Word addr 40123
	CON_STS see separate description	Word addr 40124
	TC_STS see separate description	Word addr 40125
	NRR_DS	Word addr 40126
	NRT_DS	Word addr 40127
	TIMEOUT counter drive link, Number of timeouts	Word addr 40128

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Read ModbusTCP – Drive Link communication APC to ACV700/DCV700

ACV/DCV700 Node 3

Data from Slave ACV700 / DCV700 to APC		Modbus TCP data
	DSa Cyclic dataset number from ACV700/DCV700	Word addr 40129 High
	DSb Cyclic dataset number from ACV700/DCV700	Word addr 40129 Low
	DSc Cyclic dataset number from ACV700/DCV700	Word addr 40130 High
	Not tracked Dataset number from ACV700/DCV700	Word addr 40130 Low
DRREC(0) DS91	Basic Data 1	Word addr 40131
	Basic Data 2	Word addr 40132
	Basic Data 3	Word addr 40133
DRREC(1) DSa	Normal Cyclic Data 1	Word addr 40134
	Normal Cyclic Data 2	Word addr 40135
	Normal Cyclic Data 3	Word addr 40136
	Normal Cyclic Data 4	Word addr 40137
	Normal Cyclic Data 5	Word addr 40138
	Normal Cyclic Data 6	Word addr 40139
	Normal Cyclic Data 7	Word addr 40140
	Normal Cyclic Data 8	Word addr 40141
DRREC(1) DSb	Normal Cyclic Data 1	Word addr 40142
	Normal Cyclic Data 2	Word addr 40143
	Normal Cyclic Data 3	Word addr 40144
	Normal Cyclic Data 4	Word addr 40145
	Normal Cyclic Data 5	Word addr 40146
	Normal Cyclic Data 6	Word addr 40147
	Normal Cyclic Data 7	Word addr 40148
	Normal Cyclic Data 8	Word addr 40149
DRREC(1) DSc	Normal Cyclic Data 1	Word addr 40150
	Normal Cyclic Data 2	Word addr 40151
	Normal Cyclic Data 3	Word addr 40152
	Normal Cyclic Data 4	Word addr 40153
	Normal Cyclic Data 5	Word addr 40154
	Normal Cyclic Data 6	Word addr 40155
	Normal Cyclic Data 7	Word addr 40156
	Normal Cyclic Data 8	Word addr 40157

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Read ModbusTCP – Drive Link communication APC to ACV700/DCV700

ACV/DCV700 Node 3

Data from APC Master to ACV700 / DCV700		Modbus TCP data
	DSf Cyclic dataset number to ACV700/DCV700	Word addr 40158 High
	DSg Cyclic dataset number to ACV700/DCV700	Word addr 40158 Low
	DSh Cyclic dataset number to ACV700/DCV700	Word addr 40159 High
	Not tracked Dataset number to ACV700/DCV700	Word addr 40159 Low
DRTRA(0) DS90	Basic Data 1	Word addr 40160
	Basic Data 2	Word addr 40161
	Basic Data 3	Word addr 40162
DRTRA(1) DSf	Normal Cyclic Data 1	Word addr 40163
	Normal Cyclic Data 2	Word addr 40164
	Normal Cyclic Data 3	Word addr 40165
	Normal Cyclic Data 4	Word addr 40166
	Normal Cyclic Data 5	Word addr 40167
	Normal Cyclic Data 6	Word addr 40168
	Normal Cyclic Data 7	Word addr 40169
	Normal Cyclic Data 8	Word addr 40170
DRTRA(1) DSg	Normal Cyclic Data 1	Word addr 40171
	Normal Cyclic Data 2	Word addr 40172
	Normal Cyclic Data 3	Word addr 40173
	Normal Cyclic Data 4	Word addr 40174
	Normal Cyclic Data 5	Word addr 40175
	Normal Cyclic Data 6	Word addr 40176
	Normal Cyclic Data 7	Word addr 40177
	Normal Cyclic Data 8	Word addr 40178
DRTRA(1) DSh	Normal Cyclic Data 1	Word addr 40179
	Normal Cyclic Data 2	Word addr 40180
	Normal Cyclic Data 3	Word addr 40181
	Normal Cyclic Data 4	Word addr 40182
	Normal Cyclic Data 5	Word addr 40183
	Normal Cyclic Data 6	Word addr 40184
	Normal Cyclic Data 7	Word addr 40185
	Normal Cyclic Data 8	Word addr 40186
	CONNECTSTATUS ACV/DCV700 see separate description	Word addr 40187
	CON_STS see separate description	Word addr 40188
	TC_STS see separate description	Word addr 40189
	NRR_DS	Word addr 40190
	NRT_DS	Word addr 40191
	TIMEOUT counter drive link, Number of timeouts	Word addr 40192

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ACV/DCV700 Node 4

Data from Slave ACV700 / DCV700 to APC		Modbus TCP data
	DSa Cyclic dataset number from ACV700/DCV700	Word addr 40193 High
	DSb Cyclic dataset number from ACV700/DCV700	Word addr 40193 Low
	DSc Cyclic dataset number from ACV700/DCV700	Word addr 40194 High
	Not tracked Dataset number from ACV700/DCV700	Word addr 40194 Low
DRREC(0) DS91	Basic Data 1	Word addr 40195
	Basic Data 2	Word addr 40196
	Basic Data 3	Word addr 40197
DRREC(1) DSa	Normal Cyclic Data 1	Word addr 40198
	Normal Cyclic Data 2	Word addr 40199
	Normal Cyclic Data 3	Word addr 40200
	Normal Cyclic Data 4	Word addr 40201
	Normal Cyclic Data 5	Word addr 40202
	Normal Cyclic Data 6	Word addr 40203
	Normal Cyclic Data 7	Word addr 40204
	Normal Cyclic Data 8	Word addr 40205
DRREC(1) DSb	Normal Cyclic Data 1	Word addr 40206
	Normal Cyclic Data 2	Word addr 40207
	Normal Cyclic Data 3	Word addr 40208
	Normal Cyclic Data 4	Word addr 40209
	Normal Cyclic Data 5	Word addr 40210
	Normal Cyclic Data 6	Word addr 40211
	Normal Cyclic Data 7	Word addr 40212
	Normal Cyclic Data 8	Word addr 40213
DRREC(1) DSc	Normal Cyclic Data 1	Word addr 40214
	Normal Cyclic Data 2	Word addr 40215
	Normal Cyclic Data 3	Word addr 40216
	Normal Cyclic Data 4	Word addr 40217
	Normal Cyclic Data 5	Word addr 40218
	Normal Cyclic Data 6	Word addr 40219
	Normal Cyclic Data 7	Word addr 40220
	Normal Cyclic Data 8	Word addr 40221

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ACV/DCV700 Node 4

Data from APC Master to ACV700 / DCV700		Modbus TCP data
	DSf Cyclic dataset number to ACV700/DCV700	Word addr 40222 High
	DSg Cyclic dataset number to ACV700/DCV700	Word addr 40222 Low
	DSh Cyclic dataset number to ACV700/DCV700	Word addr 40223 High
	Not tracked Dataset number to ACV700/DCV700	Word addr 40223 Low
DRTRA(0) DS90	Basic Data 1	Word addr 40224
	Basic Data 2	Word addr 40225
	Basic Data 3	Word addr 40226
DRTRA(1) DSf	Normal Cyclic Data 1	Word addr 40227
	Normal Cyclic Data 2	Word addr 40228
	Normal Cyclic Data 3	Word addr 40229
	Normal Cyclic Data 4	Word addr 40230
	Normal Cyclic Data 5	Word addr 40231
	Normal Cyclic Data 6	Word addr 40232
	Normal Cyclic Data 7	Word addr 40233
	Normal Cyclic Data 8	Word addr 40234
DRTRA(1) DSg	Normal Cyclic Data 1	Word addr 40235
	Normal Cyclic Data 2	Word addr 40236
	Normal Cyclic Data 3	Word addr 40237
	Normal Cyclic Data 4	Word addr 40238
	Normal Cyclic Data 5	Word addr 40239
	Normal Cyclic Data 6	Word addr 40240
	Normal Cyclic Data 7	Word addr 40241
	Normal Cyclic Data 8	Word addr 40242
DRTRA(1) DSh	Normal Cyclic Data 1	Word addr 40243
	Normal Cyclic Data 2	Word addr 40244
	Normal Cyclic Data 3	Word addr 40245
	Normal Cyclic Data 4	Word addr 40246
	Normal Cyclic Data 5	Word addr 40247
	Normal Cyclic Data 6	Word addr 40248
	Normal Cyclic Data 7	Word addr 40249
	Normal Cyclic Data 8	Word addr 40250
	CONNECTSTATUS ACV/DCV700 see separate description	Word addr 40251
	CON_STS see separate description	Word addr 40252
	TC_STS see separate description	Word addr 40253
	NRR_DS	Word addr 40254
	NRT_DS	Word addr 40255
	TIMEOUT counter drive link, Number of timeouts	Word addr 40256

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Read ModbusTCP – Drive Link communication APC to ACV700/DCV700

CONNECTSTATUS

This 16 bit word show status for DriveLink communication.

Bit0 Get link status passed ok

Bit1 Open connection done

Bit2 Start cyclic done

Bit3 Basic DataSet is setup ok

Bit4 Cyclic1 DataSet setup ok

Bit5 Cyclic2 DataSet setup ok

Bit6 Used for internal propose

Bit7 All setup is ok

CON_STS Status indication from ACV/DCV700

0 =OK, Connection exist

1= No connection

6=No connection, connection was broken by APC_COM_TIMEOUT

TC_STS Status of TC (ACV700 or DCV700)

bit0 =1 All parameters set to default values

bit1= 1 All dataset definitions are cleared

bit2=1 Not ready for communication

bit3=1 Fault prevents communication

bit4-7=0

NRR_DS Number of defined data sets for reception

NRT_DS Number of defined data sets for transmission

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APC to ACV700/DCV700**

2.6 Setting of IP address

Setting IP address and Status signal mapping from Service program on a PC

Connect a Straight RS232 cable from PC to PE1376B service connector DSUB 9 pole.
 Start PE1376B_Service program and select COM port number. Click on button "Port is Closed".
 Now actual IP settings and actual Data set selection are shown and possible to change. After change click on "Save Config" . Under TAB Dataset detecten you can finde the dataset numbers and addresses detected on the TcLink communication.
 Use this information to select the Datasets for logging.

The screenshot shows the PE1376B/Service V1 software interface. It includes a settings menu with COM1-6 options, a 'Click for STOP comm' button, and radio buttons for Decimal/Hex and SwapBytes. The 'Select Address' section shows 'ACV700/DCV700' selected, with 'Addr1' highlighted. A legend indicates 'Yellow=Master detect' and 'Green=Master_Slave detect'. The main area is divided into 'Logged data' and 'Detected Dataset' tables. The 'Logged data' table shows data for 'Data to >>> ACV700/DCV700' with columns for Addr and Data. The 'Detected Dataset' table shows data for 'Data from <<< ACV700/DCV700' with columns for Dataset, Addr, and Data. On the right, there are sections for 'TcLink status' (Conn. Status: 191, TC_STS: 17, NRR_DS: 3, NRT_DS: 3, Timeout DriveLink: 0, DS from Master: 1 3 0, DS from Slave: 2 4 0), 'Parameter Data' (Change TCP IP address: IP addr 192.168.1.20, Mask 255.255.255.0, Def gateway 0.0.0.0), 'Dataset selection for Drive 1-4' (Drive Addr 1, 2, 3, 4), 'TcLink common counters' (Mast Rec message: 15453, Mast Basic message: 22238, Mast cyclic message: 39451, Slave Rec message: 16001, Get link status: 12, Open connection: 4, Start cyclic comm: 5, Basic data received: 15971, DS recive setup: 8, DS transmit setup: 5, Close connection: 1, Cyclic 1 received: 9307), and 'Service program status' (F3: 496, Tx: 497, Number of TimeOuts: 0).

To-Till	From-Från	Date-Datum	Reg.	Page-Sidan
	2011-08-09			
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PE1376B Firmware version 2

Read ModbusTCP – Drive Link communication APC to ACV700/DCV700

Select TAB “Detected Datasets” and you can see what data is transmitted on the TCLink net.

This data is detected when communication to drive is started.

If no data is shown then you need to restart the TCLink by disconnect the fiber to the drives and then set the fiber back.

You can use this data to decide Dataset Selection for Drive 1-4.

This information is valid if PE1376B has firmware version 2 or later

PE1376B/Service V1
 Settings: COM1, COM2, COM3, COM4, COM5, COM6
 Click for STOP comm
 Version of PE1376B = 2
 2011-08-10 10:00:42

Select Address ACV700/DCV700
 Addr1, Addr2, Addr3, Addr4
 Legend: Gray=No data, Yellow=Master detect, Green=Master/Slave detect

Detected Dataset
 This information updates only at communication start up to Drives
 If table filled with zeroes then Restart Drive communication (Disconnect fiber to Drive)

Data to Drive. Dataset configuration

	DS Nr	Addr 1	Addr 2	Addr 3	Addr 4	Addr 5	Addr 6	Addr 7	Addr 8
Basic	90	10101	10401	10705					
DS	1	10201	10702	10501	10502	0	0	0	0
DS	3	10102	408	1201	10803	1313	12108	10501	0
DS	0	0	0	0	0	0	0	0	0
DS	0	0	0	0	0	0	0	0	0
DS	0	0	0	0	0	0	0	0	0

Data from Drive. Dataset configuration

	DS Nr	Interval	Addr 1	Addr 2	Addr 3	Addr 4	Addr 5	Addr 6	Addr 7	Addr 8
Basic	91	20	10311	10405	10706					
DS	4	100	10409	11811	10503	10504	12210	12211	12212	12213
DS	2	100	10104	10305	11806	11804	0	0	0	0
DS	0	0	0	0	0	0	0	0	0	0
DS	0	0	0	0	0	0	0	0	0	0
DS	0	0	0	0	0	0	0	0	0	0

The Basic Datasets 90 and 91 shall not be configured in Parameter data
 The Basic Datasets are automatically included in the logged data.

Tclink status
 Conn. Status: 191
 CON_STS: 0
 TC_STS: 17
 NRR_DS: 3
 NRT_DS: 3
 Timeout DriveLink: 0
 DS from Master: 1 3 0
 DS from Master Not tracked: 0
 DS from Slave: 2 4 0
 DS from Slave Not tracked: 0

Tclink common counters
 Mast Rec message: 39758
 Mast Basic message: 33790
 Mast cyclic message: 9747
 Slave Rec message: 33670
 Get link status: 12
 Open connection: 4
 Start cyclic comm: 5
 Basic data received: 33640
 DS receive setup: 8
 DS transmit setup: 5
 Close connection: 1
 Cyclic 1 received: 2744

Negativ acknowl: 0
 STATUS: 0
 CONTROL: 0
 TYP: 0

Parameter Data
 TCP IP address
 IP addr: 192 168 1 20
 Mask: 255 255 255 0
 Def gateway: 0 0 0 0

Dataset selection for Drive 1-4

Drive Addr 1
 Tx Datasets: 1 3 0
 Rx Datasets: 2 4 0

Drive Addr 2
 Tx Datasets: 1 3 0
 Rx Dataset: 2 4 0

Drive Addr 3
 Tx Datasets: 1 3 0
 Rx Dataset: 2 4 0

Drive Addr 4
 Tx Datasets: 1 3 0
 Rx Dataset: 2 4 0

Service program status
 F3: 61 00 03 2C C0 A8 01 14 FF FF 00
 Tx: 62 00 03 2D 00 00 37 0C A1
 Number of TimeOuts: 0