Automation for a Changing World

# AX-864E Package Installation User Manual



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# **Chapter 1: Package Installation**

# **1.1 Overview**

This document describes how to install the AX-8xxEP0 Series\_1.0.0.0 package in the CODESYS V3.5 SP14 softwar. After the installation, the device releated confinguration will build-in CODESYS software and user can use the IEC program, configuration, and funcitons to implement the project.

# **1.2 Software and Package Download**

Please download the Codesys software as below link.

- Codesys standard software <u>http://www.deltaww.com/services/DownloadCenter2.aspx?secID=8&pid=2&tid=0&C</u> <u>ID=06&itemID=060210&typeID=1&downloadID=&title=&dataType=8;3;&check=1&h</u> <u>I=en-US</u>
- Package: AX-8xxEP0 Series\_1.0.0.0

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3	- Select Product Sub-Category - •		
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# **1.3 Package Installation**

Please install the Codesys sodtware first and follow the below step to install package.

- Download the Package in Delta download center
   AX-8xxEP0 Series\_1.0.0.0.package
- 2. Open the Codesys Development Software



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#### 6. Install the package



# **1.4 Open AX-8 Series Configuration**

After the package installation, user can follow the below steps to create the AX8 series project and config the releated program, function, and configuration.

1. New project



2. Choose Standrad Project > Device: AX-8xxEP0 Series, and choose the PLC\_PRG.





# 1.5 AX-8 Series Parameter

AX-8 Controller parameter setting in Codesys software.

1. Open project



- 4. Application Run Mode : Set RTE and PLC "Run" status when controller active
  - Setting Value : True, False
  - Default Value : False
  - Offline can change the setting
  - After Download, the status will run.

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<ul> <li>UNMENT</li> <li>Device (MONE TO Series)</li> <li>The Curpe</li> <li>Applications</li> <li>Series (Annumber of the series)</li> <li>Series (Annumber of the series)</li> <li>Task Cardina stars</li> <li>Series (Annumber of the series)</li> </ul>	Conversion of a startings Applications Deckups and Restors There Log PLC Declinics PLC Declinics PLC Declinics PLC Declinics PLC Declinics Sector Regists Sector Regists Declinics Deckup Internet Deckup Internet Defense	Fatanceor # Acologitan Rur Mode # Sonid Communication Practs	Type 6XX Derestor al DTC	5/8L# 586 83-463	Default Unit Rise ND-RS	Description (Trief trade hun hade (Indef Daate Kur Chave Se of Consumation Mole

- 5. Serial Communication Mode :
  - Setting Value : RS-485, RS-422, SSI
  - Default Value : RS-485
  - Offline can change the setting
  - After Download, the status will run.
  - Windows device administrator default comport : COM3

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- 6. BuiltIn\_DIO Parameter:
  - DI Filter Select : Set X0~X7 input filter time
    - Setting Value : Not Filter \ 0.1ms \ 0.5ms \ 1ms
    - Default Value : Not Filter
    - Offline can change the setting
    - After Download, the status will run.
  - DO Output Inverse : Set Y0~Y7 out reserve
    - ◆ Setting Value : True · False
    - Default Value : False
    - Offline can change the setting
    - After Download, the status will run.

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		# 12 Output Swime	000	PH 51	Pwi92	Revenue the 17 with AD

- X0 Function Type Choose : Set X0 as general output or special software functions
  - Setting Value :
    - A. General Input
    - B. Stop/Start PLC Control
  - Default Value : General Input
  - Offline can change the setting
    - After Download, the status will run.

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- ♦ Note: Stop/Start PLC Control Timing diagram
  - Whne X0 is Low, Application  $\rightarrow$  Reset  $\rightarrow$  Run
  - When X0 is High, Application Stop



### 7. BuiltIn\_DIO I/O Mapping :

- I/O Mapping : Input or output Mapping
  - Input 0 or Output 0 Mapping (Type: Byte)
  - ◆ X0~X7 or Y0~Y7 Single in/output Mapping( Type: BOOL)

BuiltIn_D10 Parameters	find		Filter Show	all .			• 🔮 Ada
Builtin_DIO 1/0 Napping	Variable	Mapping	Channel Ir0	Address NIB0	Туре вите	Unit	Description 8-CH Digital Input
BuiltIn_DIO JEC Objects	*		XD	%D03.0	BOOL		
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Status	-19		32	%D00.2	5001		
	-10		33	%000.3	6001		
Information	*		x4	%100.4	8001		
	*9		15	%000.5	5001		
			X5	%D00.6	BOOL		
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	- 4		42	%QX0.2	5001		
	<b>59</b>		Y3	%QX0-3	BOOL		
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			45	%QX0.5	BOOL		
			Y6	%QX0.5	BOOL	-	
			12	%CX0.7	BOOL		

- 8. BuiltIn\_Pulse\_Encoder Parameter:
  - Pulse Encoder input type :
    - Setting Value : A/B Phase 
      CW/CCW
    - Default Value : A/B Phase
    - Offline can change the setting
    - After Download, the status will run.
  - Pulse Encoder input direction :
    - Setting Value : True(Inverse) 
       False(Normal)
    - Default Value : False
    - Offline can change the setting
    - After Download, the status will run.
  - Pulse Encoder Z Inverse :
    - Setting Value : True(Inverse) 
       False(Normal)
    - Default Value : False
    - Offline can change the setting
    - After Download, the status will run.

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- 9. BuiltIn\_Pulse\_Encoder I/O Mapping:
  - Pulse\_Encoder Mapping : Pulse Encoder Input and Reset Mapping
    - Counte r(Type : DINT)
    - Reset (Type: BOOL & Execution)



ResetTiming diagram



- Pulse\_Encoder example :
  - Add Device → Add "SMC\_FreeEncode" and map with Counter 做

SoftMotion General SMC_FreeEnco	Axis Pool der (SMC_Fre _Virtual)	eEncoder)				
BuiltIn_Pulse_Encoder						
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BuiltIn_Pulse_Encoder IEC Objects	1.4				Reset	%QX29.0

• Use Encoder of R1-EC5621 as output to AX-8xxE Pulse Encoder



• Use SMC\_FreeEncoder as master axis and do GrarIn with virtual axis.

# **Chapter 2: CODESYS variables share to DIAScreen**

# 2.1 Overview

DIAScreen have support to import variables of Codesys software. User can define the variables in Codesys development software and export the xml file of symbol configuration. Import the xml to DIAScreen to communicate between controller and Delta HMI functions.

Please download DAIScreen Installation in Website

http://www.deltaww.com/services/DownloadCenter2.aspx?secID=8&pid=2&tid=0&CID= 06&itemID=060210&typeID=1&downloadID=&title=&dataType=&check=0&hl=zh-TW

Support PAC AX-8 series and DOP-100 series.

# 2.2 Export Variable in Codesys

Build the Global Variable list and export the symbol configuration.

1. Right click "Application"  $\rightarrow$  "Add Object"  $\rightarrow$  "Global Variable List"



2. Import the Global Variable list naming.



3. Build Variable in GVL



#### Untitled 1. project\* - CODESYS File Edit View Project Build Online Debug Tools Window Help 医尿管 医口口 医原关系结核结 非常常有 医胆管 医骨骨 计字句研究 Devices 4 × 📄 Device 🗙 📄 Bultin\_DID 10 Buildin\_Pulse\_Encoder B Chooleds -Communication Settings Parameter E 🗿 Device (AX-StocEPO Series) Pic Logic Application Run Mode 🗄 🔘 Application Setal Communication Mode x Cut GVL 2 Copy 1 Library Hanager 8 Paste PLC\_PRG (PRG) Delete × Task Configuration EtherCAT\_Task Refactoring ř. MainTask Properties\_ PLC\_PRG 500 EtherCAT Master (AX-8xs87 Add Object Alarm configuration. ×. > Builtin Add Folder. Application. Buittin\_DEO (Builtin\_DEO) Edit Object Asis Group ... Builtin\_Puise\_Encoder E Edit Object With. Cam table\_ a 3 SoftMotion General Axis Pool CNC program... C Login CNC settings\_ Delete application from device 1 Data Sources Manager... 31 Parameters DUT\_ 5 External File... IEC Objects 6 Global Variable List ... Task deployment 0 Image Pool... -0 Interface\_ Status Metwork Variable List (Receiver)... Gð. Network Variable List (Sender) ... Information T Persistent Variables... AT POUL 一 POU for implicit checks... Recipe Manager ... Redundancy Configuration. • Symbol configuration\_ Text List.

## 4. Application $\rightarrow$ Add Object $\rightarrow$ Symbol Configuration

5. Choose "Include Comments in XML"

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#### 6. Click "Build" $\rightarrow$ Choose "GVL"



7. Go to toolbar  $\rightarrow$  "Build"  $\rightarrow$  "Generate code"



#### 8. The xml will in the assign folder.



## 2.3 DIAScreen with PAC AX-8 Series

1. Open DAIScreenV1.0  $\rightarrow$  "New File"  $\rightarrow$  Choose "AX8xxE" model.



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### 2. Go to "Codesys" in Project Tree



# 3. Click the "Import" and choose the xml file which export from Codesys.



#### 4. The symbols show in DIAScreen.

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5. Insert the Element and Double click the element. User can choose the Codesys parameter to connect with the element.



**CK** 

Cancel

# 2.4 DIAScreen with PAC AX-8 Series

1. Open DAIScreenV1.0  $\rightarrow$  "New File"  $\rightarrow$  Choose "DOP-100" series  $\rightarrow$  Next



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 Project Wizard → Ethernet 1→ New Network Links → Choose "CODESYS" controller → Import

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# 4. Insert the Element and Double click the element. User can choose the Codesys parameter to connect with the element.

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