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# ПРОГРАММИРУЕМЫЕ ЛОГИЧЕСКИЕ КОНТРОЛЛЕРЫ

## Техническое описание на модули ввода-вывода AI



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PRODUCT-DETAILS

# AI581-S-XC

Analog input module. Safety. 4SAI, 4 SIL2/SIL3, 4..20mA input 14bit, 24VDC (AI581-S-XC)



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## General Information

Extended Product Type	AI581-S-XC
Product ID	1SAP482000R0001
ABB Type Designation	AI581-S-XC
EAN	4016779866163
Catalog Description	Analog input module. Safety. 4SAI, 4 SIL2/SIL3, 4..20mA input 14bit, 24VDC (AI581-S-XC)
Long Description	AI581-S-XC: S500-S Analog input module. Safety. 4SAI, 4 SIL2/SIL3, 4..20mA input 14bit, 24VDC. 2-wire. eXtreme Conditions

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## Ordering

Country of Origin	Germany (DE) China (CN) Finland (FI)
CN8	85389091
Invoice Description	Analog input module. Safety. 4SAI, 4 SIL2/SIL3, 4..20mA input 14bit, 24VDC (AI581-S-XC)
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece

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## Dimensions

Product Net Weight	0.126 kg 62 mm
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Length	
Product Net Height	76 mm
Product Net Width	67.5 mm
Gross Weight	0.156 kg
Package Level 1 Depth /Length	84 mm
Package Level 1 Height	72 mm
Package Level 1 Width	71 mm
Package Level 1 Units	1 carton

## Technical

Function	Safety. 4SAI, 4 SIL2/SIL3, 4..20mA input 14bit, 24VDC
Number of Analog Configurable I/Os	0
Analog Inputs	4
Resolution	Analog Input 14 bit
Degree of Protection	IP20
Safety Integrity Level (SIL)	2
Ambient Air Temperature	Operation -30...+70 °C Storage -40...+85 °C

## Additional Information

Product Main Type	AI581
Product Name	Distributed Automation I/Os

## Classifications

eClass	27-24-22-02
EPLAN Catalog Tree	Electrical engineering / PLC / PLC input card analog
ETIM 8	EC001420 - PLC analogue I/O-module
UNSPSC	32151802

## Environmental

SCIP	0140e9ed-132b-4788-9982-9938b07037e5 Germany (DE)
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

PRODUCT-DETAILS

# AI581-S

Analog input module. Safety. 4SAI, 4 SIL2/SIL3, 4..20mA input 14bit, 24VDC (AI581-S)



## General Information

Extended Product Type	AI581-S
Product ID	1SAP282000R0001
ABB Type Designation	AI581-S
EAN	4016779681780
Catalog Description	Analog input module. Safety. 4SAI, 4 SIL2/SIL3, 4..20mA input 14bit, 24VDC (AI581-S)
Long Description	AI581-S: S500-S Analog input module. Safety. 4SAI, 4 SIL2/SIL3, 4..20mA input 14bit, 24VDC. 2-wire.

## Ordering

Country of Origin	Germany (DE) Finland (FI)
CN8	85389091
Invoice Description	Analog input module. Safety. 4SAI, 4 SIL2/SIL3, 4..20mA input 14bit, 24VDC (AI581-S)
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece

## Dimensions

Product Net Weight	0.125 kg
Product Net Depth / Length	62 mm
Product Net Height	76 mm
Product Net Width	67.5 mm
Gross Weight	0.155 kg
Package Level 1 Depth / Length	84 mm
Package Level 1 Height	72 mm
Package Level 1 Width	71 mm
Package Level 1 Units	1 carton

## Technical

Function	Safety. 4SAI, 4 SIL2/SIL3, 4..20mA input 14bit, 24VDC
Number of Analog Configurable I/Os	0
Analog Inputs	4
Resolution	Analog Input 14 bit
Degree of Protection	IP20
Safety Integrity Level (SIL)	2

## Additional Information

Product Main Type	AI581
Product Name	Distributed Automation I/Os

## Classifications

eClass	27-24-22-02
EPLAN Catalog Tree	Electrical engineering / PLC / PLC input card analog
ETIM 8	EC001420 - PLC analogue I/O-module
UNSPSC	32151802

## Environmental

SCIP	39206d4d-27ae-4fea-9f02-188f1f9f43e2 Germany (DE)
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

## Where Used (as part of "kit")

Identifier	Description	Type
1SAP182900R0001	Training case. With: PM573-ETH, CM579-PNIO, CI502-PNIO, SM560-S, AI581-S, DI581-S, DX581-S, Case, Power adapter (TA514-SAFETY)	Kit

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PRODUCT-DETAILS

# AI563

## Analog input module. 4 AI: TC (AI563)



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### General Information

Extended Product Type	AI563
Product ID	1TNE968902R1103
ABB Type Designation	AI563
EAN	6943747170176
Catalog Description	Analog input module. 4 AI: TC (AI563)
Long Description	AI563: S500-eCo Analog input module. 4 AI: TC. 2-wire.

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### Ordering

Country of Origin	China (CN) Germany (DE) Finland (FI)
CN8	85371091
Invoice Description	Analog input module. 4 AI: TC (AI563)
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece

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### Dimensions

Product Net Weight	0.123 kg
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Product Net Depth / Length	135 mm
Product Net Height	74 mm
Product Net Width	34 mm
Gross Weight	0.224 kg
Package Level 1 Depth / Length	93 mm
Package Level 1 Height	63 mm
Package Level 1 Width	170 mm
Package Level 1 Units	1 carton

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## Technical

Function	4 AI: TC
Number of Analog Configurable I/Os	0
Analog Inputs	4
Resolution	Analog Input 16 bit
Connection Type	Pluggable
Degree of Protection	IP20
Ambient Air Temperature	Operation 0 ... +60 °C Storage -40 ... +70 °C

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## Additional Information

Product Main Type	AI563
Product Name	Distributed Automation I/Os

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## Classifications

eClass	27-24-22-02
EPLAN Catalog Tree	Electrical engineering / PLC / PLC input card analog
ETIM 8	EC001420 - PLC analogue I/O-module
UNSPSC	32151705

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## Environmental

SCIP	a9699a8f-ad6d-4773-aec6-098a0d63662c Germany (DE)
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

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PRODUCT-DETAILS

# AI562

## Analog input module. 2 AI: RTD (AI562)



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### General Information

Extended Product Type	AI562
Product ID	1TNE968902R1102
ABB Type Designation	AI562
EAN	6943747170169
Catalog Description	Analog input module. 2 AI: RTD (AI562)
Long Description	AI562: S500-eCo Analog input module. 2 AI: RTD. 2..3-wire

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### Ordering

Country of Origin	China (CN) Germany (DE) Finland (FI)
CN8	85371091
Invoice Description	Analog input module. 2 AI: RTD (AI562)
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece

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### Dimensions

Product Net Weight	0.121 kg
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Product Net Depth / Length	135 mm
Product Net Height	74 mm
Product Net Width	34 mm
Gross Weight	0.222 kg
Package Level 1 Depth / Length	93 mm
Package Level 1 Height	63 mm
Package Level 1 Width	170 mm
Package Level 1 Units	1 carton

## Technical

Function	2 AI: RTD
Number of Analog Configurable I/Os	0
Analog Inputs	2
Resolution	Analog Input 15 bit
Connection Type	Pluggable
Degree of Protection	IP20

## Additional Information

Product Main Type	AI562
Product Name	Distributed Automation I/Os

## Classifications

eClass	27-24-22-02
EPLAN Catalog Tree	Electrical engineering / PLC / PLC input card analog
ETIM 8	EC001420 - PLC analogue I/O-module
UNSPSC	32151705

## Environmental

SCIP	845b42a9-6bb9-418f-a57a-fc9a982e678b Germany (DE)
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

## Where Used (as part of "kit")

Identifier	Description	Type
1SAP186200R1700	TA590-2AI V3 IO Kit KNX	Kit

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PRODUCT-DETAILS

# AI561

Analog input module. 4 AI: U, I  
(AI561)



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## General Information

Extended Product Type	AI561
Product ID	1TNE968902R1101
ABB Type Designation	AI561
EAN	6943747170152
Catalog Description	Analog input module. 4 AI: U, I (AI561)
Long Description	AI561: S500-eCo Analog input module. 4 AI: U, I, 1-wire.

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## Ordering

Country of Origin	China (CN) United States (US) Germany (DE) Finland (FI)
CN8	85371091
Invoice Description	Analog input module. 4 AI: U, I (AI561)
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece

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## Dimensions

Product Net Weight	0.12 kg
Product Net Depth /Length	135 mm

Product Net Height	74 mm
Product Net Width	34 mm
Gross Weight	0.16 kg
Package Level 1 Depth /Length	93 mm
Package Level 1 Height	63 mm
Package Level 1 Width	170 mm
Package Level 1 Units	1 carton

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## Technical

Function	4 AI: U, I
Number of Analog Configurable I/Os	0
Analog Inputs	4
Resolution	Analog Input 12 bit
Connection Type	Pluggable
Degree of Protection	IP20
Ambient Air Temperature	Operation 0 ... +60 °C Storage -40 ... +70 °C

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## Additional Information

Product Main Type	AI561
Product Name	Distributed Automation I/Os

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## Classifications

eClass	27-24-22-02
EPLAN Catalog Tree	Electrical engineering / PLC / PLC input card analog
ETIM 8	EC001420 - PLC analogue I/O-module
UNSPSC	32151705

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## Environmental

WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)



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PRODUCT-DETAILS

## AX522-XC

Analog input/output module. 8 AI: U, I, RTD. 4 AO: U, I. 4 AO: U (AX522-XC)



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### General Information

Extended Product Type	AX522-XC
Product ID	1SAP450000R0001
ABB Type Designation	AX522-XC
EAN	4016779846141
Catalog Description	Analog input/output module. 8 AI: U, I, RTD. 4 AO: U, I. 4 AO: U (AX522-XC)
Long Description	AX522-XC: S500 Analog input/output module. 8 AI: U, I, RTD. 4 AO: U, I. 4 AO: U. 1-wire. eXtreme Conditions

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### Ordering

Country of Origin	Germany (DE) Finland (FI)
CN8	85389091
Invoice Description	Analog input/output module. 8 AI: U, I, RTD. 4 AO: U, I. 4 AO: U (AX522-XC)
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece

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### Dimensions

Product Net Weight	0.127 kg
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Product Net Depth / Length	62 mm
Product Net Height	76 mm
Product Net Width	67.5 mm
Gross Weight	0.151 kg
Package Level 1 Depth / Length	84 mm
Package Level 1 Height	72 mm
Package Level 1 Width	71 mm
Package Level 1 Units	1 carton

## Technical

Function	8 AI: U, I, RTD. 4 AO: U, I. 4 AO: U
Number of Analog Configurable I/Os	0
Analog Inputs	8
Analog Outputs	8
Resolution	Analog Input 13 bit Analog Output 13 bit
Degree of Protection	IP20
Ambient Air Temperature	Operation -30...+70 °C Storage -40...+85 °C

## Additional Information

Product Main Type	AX522
Product Name	Distributed Automation I/Os

## Classifications

eClass	27-24-22-02
EPLAN Catalog Tree	Electrical engineering / PLC / General
ETIM 8	EC001420 - PLC analogue I/O-module
UNSPSC	32151705

## Environmental

SCIP	0b44ae0e-be56-494b-8646-8ef9c891e457 Germany (DE)
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)



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PRODUCT-DETAILS

# AI531

Analog input module. 8 AI: U, I, RTD, R, TC, DI  
(AI531)



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## General Information

Extended Product Type	AI531
Product ID	1SAP250600R0001
ABB Type Designation	AI531
EAN	4016779667227
Catalog Description	Analog input module. 8 AI: U, I, RTD, R, TC, DI (AI531)
Long Description	AI531: S500 Analog input module. 8 AI: U, I, RTD, R, TC, DI. 16 bit incl. sign. 1..4-wire.

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## Ordering

Country of Origin	Germany (DE) Finland (FI)
CN8	85389091
Invoice Description	Analog input module. 8 AI: U, I, RTD, R, TC, DI (AI531)
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece

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## Dimensions

Product Net Weight	0.128 kg 62 mm
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Length	
Product Net Height	76 mm
Product Net Width	67.5 mm
Gross Weight	0.153 kg
Package Level 1 Depth / Length	84 mm
Package Level 1 Height	72 mm
Package Level 1 Width	71 mm
Package Level 1 Units	1 carton

## Technical

Function	8 AI: U, I, RTD, R, TC, DI
Number of Analog Configurable I/Os	0
Analog Inputs	8
Resolution	Analog Input 16 bit
Degree of Protection	IP20
Supply Voltage	24 V DC
Ambient Air Temperature	Operation 0 ... +60 °C Storage -40 ... +70 °C

## Additional Information

Product Main Type	AI531
Product Name	Distributed Automation I/Os

## Classifications

eClass	27-24-22-02
EPLAN Catalog Tree	Electrical engineering / PLC / PLC input card analog
ETIM 8	EC001420 - PLC analogue I/O-module
UNSPSC	32151705

## Environmental

SCIP	7d9da453-ea65-433e-883f-5be4717a3c69 Germany (DE)
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)



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PRODUCT-DETAILS

# AI523-XC

Analog input module. 16 AI: U, I, RTD, DI (AI523-XC)



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## General Information

Extended Product Type	AI523-XC
Product ID	1SAP450300R0001
ABB Type Designation	AI523-XC
EAN	4016779846257
Catalog Description	Analog input module. 16 AI: U, I, RTD, DI (AI523-XC)
Long Description	AI523-XC: S500 Analog input module. 16 AI: U, I, RTD, DI. 1-wire. eXtreme Conditions

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## Ordering

Country of Origin	Germany (DE) Finland (FI)
CN8	85389091
Invoice Description	Analog input module. 16 AI: U, I, RTD, DI (AI523-XC)
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece

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## Dimensions

Product Net Weight	0.125 kg 62 mm
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Length	
Product Net Height	76 mm
Product Net Width	67.5 mm
Gross Weight	0.15 kg
Package Level 1 Depth / Length	84 mm
Package Level 1 Height	72 mm
Package Level 1 Width	71 mm
Package Level 1 Units	1 carton

## Technical

Function	16 AI: U, I, RTD, DI
Number of Analog Configurable I/Os	0
Analog Inputs	16
Resolution	Analog Input 13 bit
Degree of Protection	IP20
Ambient Air Temperature	Operation -30...+70 °C Storage -40...+85 °C

## Additional Information

Product Main Type	AI523
Product Name	Distributed Automation I/Os

## Classifications

eClass	27-24-22-02
EPLAN Catalog Tree	Electrical engineering / PLC / PLC input card analog
ETIM 8	EC001420 - PLC analogue I/O-module
UNSPSC	32151705

## Environmental

SCIP	0b0f0c47-82f4-4350-a0e3-e7cb86ac88ca Germany (DE)
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)



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PRODUCT-DETAILS

# AI523

Analog input module. 16 AI: U, I, RTD, DI  
(AI523)



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## General Information

Extended Product Type	AI523
Product ID	1SAP250300R0001
ABB Type Designation	AI523
EAN	4016779655941
Catalog Description	Analog input module. 16 AI: U, I, RTD, DI (AI523)
Long Description	AI523: S500 Analog input module. 16 AI: U, I, RTD, DI. 13Bit incl. sign. 1-wire.

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## Ordering

Country of Origin	Germany (DE) Finland (FI)
CN8	85389091
Invoice Description	Analog input module. 16 AI: U, I, RTD, DI (AI523)
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece

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## Dimensions

Product Net Weight	0.125 kg
	62 mm

Length	
Product Net Height	76 mm
Product Net Width	67.5 mm
Gross Weight	0.149 kg
Package Level 1 Depth / Length	84 mm
Package Level 1 Height	72 mm
Package Level 1 Width	71 mm
Package Level 1 Units	1 carton

## Technical

Function	16 AI: U, I, RTD, DI
Number of Analog Configurable I/Os	0
Analog Inputs	16
Resolution	Analog Input 13 bit
Degree of Protection	IP20
Supply Voltage	24 V DC
Ambient Air Temperature	Operation 0 ... +60 °C Storage -40 ... +70 °C

## Additional Information

Product Main Type	AI523
Product Name	Distributed Automation I/Os

## Classifications

eClass	27-24-22-02
EPLAN Catalog Tree	Electrical engineering / PLC / PLC input card analog
ETIM 8	EC001420 - PLC analogue I/O-module
UNSPSC	32151705

## Environmental

SCIP	7cb90025-28e2-46bb-94d1-6c5d380058b3 Germany (DE)
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)



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