TechTip: PLC addressing Rockwell Allen Bradley format

General

This TechTip helps you to configure the PLC addressing in the format for the Rockwell ControlLogix product family.

Preparations in Eplan

Create a scheme for PLC-specific settings under **File** > **Settings** > **Projects** > "Project name" > **Device** > **PLC**.

Tab Addresses

Inputs

Addressing	Identifier	Data type	Type of signal	Increment
Bit		BOOL	Digital input	00:0:I.Data.1
Byte		BYTE	Analog input	00:0:I.Ch1.Data
WORD		INT	Analog input	00:0:I.Ch1.Data
DWORD		REAL	Analog input	00:0:I.Ch1.Data
LWORD				

Outputs

Addressing	Identifier	Data type	Type of signal	Increment
Bit		BOOL	Digital output	00:0:O.Data.1
Byte		BYTE	Analog output	00:0:O.Ch1.Data
WORD		INT	Analog output	00:0:O.Ch1.Data
DWORD		REAL	Analog output	00:0:O.Ch1.Data
LWORD			Analog output	

The identifier in this case is left empty since it is contained in the **Increment** field.

Tab Address formats

Digital inputs

Format element	Symbol	Setting
Counter	C	Number system: Decimal Start value: 0 End value: 99 Number of digits: 1 Configuration value from property: "PLC card is placed on rack ID"
Separator	:	:
Counter	C	Number system: Decimal Start value: 0 End value: 99 Number of digits: 1 Configuration value from property: "Position (slot / module)"
Separator	:I.Data.	:I.Data.
Counter	C	Number system: Decimal Start value: 0 End value: 99 Number of digits: 1 Configuration value from property: "Channel designation (automatic)"

Digital outputs

Format element	Symbol	Setting
Counter	C	Number system: Decimal Start value: 0 End value: 99 Number of digits: 1 Configuration value from property: "PLC card is placed on rack ID"
Separator	:	:
Counter	C	Number system: Decimal Start value: 0 End value: 99 Number of digits: 1 Configuration value from property: "Position (slot / module)"
Separator	:O.Data.	:O.Data.
Counter	C	Number system: Decimal Start value: 0 End value: 99 Number of digits: 1 Configuration value from property: "Channel designation (automatic)"

Analog inputs

Format element	Symbol	Setting
Counter	C	Number system: Decimal Start value: 0 End value: 99 Number of digits: 1 Configuration value from property: "PLC card is placed on rack ID"
Separator	:	:
Counter	C	Number system: Decimal Start value: 0 End value: 99 Number of digits: 1 Configuration value from property: "Position (slot / module)"
Separator	:I.Ch.	:I.Ch.
Counter	C	Number system: Decimal Start value: 0 End value: 99 Number of digits: 1 Configuration value from property: "Channel designation (automatic)"
Separator	.Data	.Data

Analog outputs

Format element	Symbol	Setting
Counter	C	Number system: Decimal Start value: 0 End value: 99 Number of digits: 1 Configuration value from property: "PLC card is placed on rack ID"
Separator	:	:
Counter	C	Number system: Decimal Start value: 0 End value: 99 Number of digits: 1 Configuration value from property: "Position (slot / module)"
Separator	:O.Ch.	:O.Ch.
Counter	C	Number system: Decimal Start value: 0 End value: 99 Number of digits: 1 Configuration value from property: "Channel designation (automatic)"
Separator	.Data	.Data

Tab Format of assignment list

An export or import of the assignment lists with the **Addresses / assignment lists** dialog is not possible. The settings of this tab can therefore be skipped.
Please use the PLC data exchange in the AutomationML AR APC format to exchange the assignment lists.