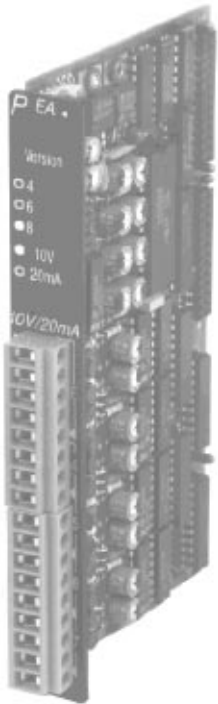


# A4

## ANALOG INPUT/OUTPUT MODULES, PEA8 - 4 INPUTS, 4 OUTPUTS

PLC SYSTEMS  
MINICONTROL COMPONENTS



### PEA8

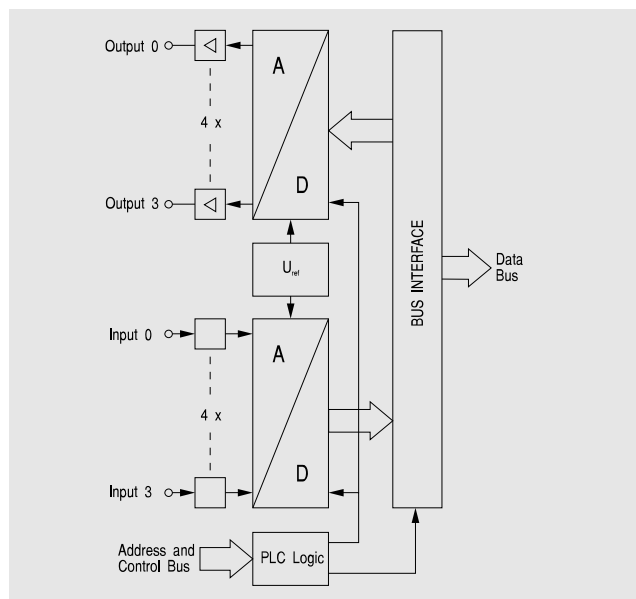
- 4 Analog Inputs
- Input Signal 0 - 10 V or 0 - 20 mA
- 10 Bit Resolution
- 4 Analog Outputs
- Output Signal 0 - 10 V or 0 - 20 mA
- Software Operation with Standard Function Blocks

SLOTS		0	1	2	3	4	5
PEA8	Base Unit C (CP32)		●	●			

#### ORDER DATA

<b>MCPEA8-1</b>	Analog Input/Output Module, 4 Analog Inputs, Input Voltage 0 - 10 V, 10 Bit Resolution, 4 Analog Outputs, Output Voltage 0 - 10 V, Without Galvanic Isolation
<b>MCPEA8-2</b>	Analog Input/Output Module, 4 Analog Inputs, Input Current 0 - 20 mA, 10 Bit Resolution, 4 Analog Outputs, Output Current 0 - 20 mA, Without Galvanic Isolation

#### DIAGRAM



#### TECHNICAL DATA

	PEA8-1	PEA8-2
Number of Inputs	4	4
Input Signal		
Nominal	0 to 10 V	0 to 20 mA
Maximal	-0.3 V to +13 V	70 mA
Resolution per Inputs	10 Bit	10 Bit
Conversion Time per Channel	ca. 10 msec	ca. 10 msec
Input Current	< 250 nA	-
Load -		50 Ω
Voltage Drop at 20 mA	-	1 V
Input Precision		
Basic Precision at 20 °C	±0.3 %	±0.3 %
Offset Drift	±0.0025 % / °C	±0.0055 % / °C
Gain Drift	±0.025 % / °C	±0.03 % / °C
Linearity	0.2 %	0.2 %
Number of Outputs	4	4
Output Signal	0 to 10 V	0 to 20 mA
Output Resolution	8 Bit	8 Bit
Output Precision		
Offset at 20 °C	0.2 %	0.3 %
Offset Drift (0 to 60 °C)	±0.05 %	0.08 %
Gain Error at 20 °C	±0.2 %	Load 50 Ω: 0.5 % Load 400 Ω: 3.5 %
Gain Drift	±0.012 % / °C	0.05 % / °C
Linearity	0.2 %	0.2 %
Max Output Load Per Channel	20 mA	
Load		Max. 400 Ω
Documentation		Hardware Manual MINICONTROL
German		MAHWMINI-0
English		MAHWMINI-E
French		MAHWMINI-F

#### CONNECTIONS

0	Analog Input 0
1	Analog Input 1
2	Analog Input 2
3	Analog Input 3
▶	Reference Potential for Analog Inputs
U	Voltage Output 0 (only with PEA8-1)
I	Current Output 0 (only with PEA8-2)
▶	Reference Potential for Analog Outputs
U	Voltage Output 1 (only with PEA8-1)
I	Current Output 1 (only with PEA8-2)
▶	Reference Potential for Analog Outputs
U	Voltage Output 2 (only with PEA8-1)
I	Current Output 2 (only with PEA8-2)
▶	Reference Potential for Analog Outputs
U	Voltage Output 3 (only with PEA8-1)
I	Current Output 3 (only with PEA8-2)
▶	Reference Potential for Analog Outputs

#### SOFTWARE OPERATION

The analog inputs and outputs are controlled with standard function blocks AINA and AOTA. These function blocks are components of software package SWSPSSTD01-0 (see section A7 "PLC Programming" as well).