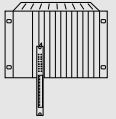


# ANALOG INPUT MODULES

## PTE8 - 8 INPUTS FOR TEMPERATURE SENSORS

PLC SYSTEMS  
MULTICONTROL COMPONENTS

# A6



## PTE8

- 8 Analog Inputs for Temperature Sensors
- Optional FeCuNi or NiCrNi Sensor (Type J, K, L) conforming to DIN 43710 or DIN IEC 584
- Temperature Ranges 0 to 400 °C, 0 to 500 °C, 0 to 600 °C, 0 to 1200 °C
- Resolution 10 Bit
- Conversion Time ca. 300 µsec per Channel
- Software Operation with Standard Function Blocks

### SLOTS

The analog input module PTE8 can be operated in the following slots of racks MULTI, MIDI and M264.

Rack	Slot	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
MULTI Base Rack		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MULTI Expansion Rack		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MIDI		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M264		●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○

● The module can be operated in this slot  
 ○ The module cannot be operated in this slot

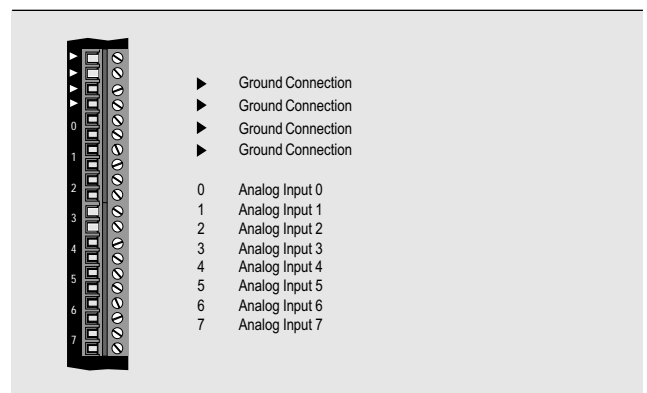
### ORDER DATA

Analog Input module for Temperature Measurement, 8 Channels, 10 Bit Resolution, for direct connection of temperature sensors, not galvanically isolated	
<b>ECPT8-0</b>	FeCuNi Temperature sensors conforming to DIN 43710 (Type L), Measurement Range 0 to 400 °C
<b>ECPT8-1</b>	NiCrNi Temperature sensors conforming to DIN IEC 584 (Type K), Measurement Range 0 to 600 °C
<b>ECPT8-2</b>	NiCrNi Temperature sensors conforming to DIN IEC 584 (Type K), Measurement Range 0 to 1200 °C
<b>ECPT8-3</b>	FeCuNi Temperature sensors conforming to DIN IEC 584 (Type J), Measurement Range 0 to 500 °C

### TECHNICAL DATA

	PTE8-0	PTE8-1	PTE8-2	PTE8-3
Number of Inputs	8			
Galvanic Isolation	NO			
Sensor Type	FeCuNi	NiCrNi L	NiCrNi K	FeCuNi K J
Standard	DIN 43710	DIN IEC 584	DIN IEC 584	DIN IEC 584
Measurement Range	0 - 400 °C	0 - 600 °C	0 - 1200 °C	0 - 500 °C
Resolution	10 Bit			
Conversion Time	ca. 300 µsec per Channel			
Measurement Precision				
Basic Precision at 20 °C	±0.6 %	±0.6 %	±0.6 %	±0.6 %
Offset Drift	±0.062 % / °C	±0.062 % / °C	±0.046 % / °C	±0.062 % / °C
Gain Drift	±0.052 % / °C	±0.062 % / °C	±0.052 % / °C	±0.062 % / °C
Linearity	±0.7 % / V	±0.7 % / V	±0.7 % / V	±0.7 % / V
Linearization	Hardware	Software	Software	Hardware
Terminal Block Temp. Compensation	YES			
Power Consumption				
At +8 V			1.4 W	
At +15 V			1.0 W	
At -30 V			1.9 W	
Documentation	Hardware Manual MULTICONTROL			
German	MAHWMULTI-0			
English	MAHWMULTI-E			
French	MAHWMULTI-F			
Italian	MAHWMULTI-I			
Spanish	MAHWMULTI-S			

### CONNECTIONS



### SOFTWARE OPERATION

The analog inputs are controlled with standard function blocks TINC and TIND. These function blocks are standard components of software package SWSPSTD01-0 (see section A7 "PLC Programming" for more information). Either TINC or TIND is used depending on the module version:

Module Version	Sensor Type	Measurement Range	Function Block
PTE8-0	FeCuNi	0 to 400 °C	TIND
PTE8-1	NiCrNi	0 to 600 °C	TINC
PTE8-2	NiCrNi	0 to 1200 °C	TINC
PTE8-3	FeCuNi	0 to 500 °C	TIND