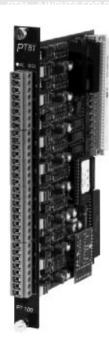


ANALOG INPUT MODULES PT81 - 8 INPUTS FOR PT100 TEMPERATURE SENSORS

PLC SYSTEMS
MULTICONTROL COMPONENTS



PT81

- 8 Analog Inputs for PT100 Temperature Sensors
- Direct connection to DIN 43760 Standard Temperature Sensors
- Temperature Range optionally -25 to +75 °C or -25 to +475 °C (software adjustable)
- Resolution 10 Bit
- Conversion Time ca. 3 msec per Channel
- Automatic Linearization (Hardware)
- Optional Three Wire or Four Wire Connection (Two Module Versions)
- Software Operation with Standard Function Blocks

SLOTS

The analog input module PT81 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	В	C	D	E	F	
MULTI Base Rack MULTI Expansion Rack MIDI M264		0		0	0	0	0	0	0	Ó	Ó	Ó			•			
The module can be operated The module cannot be operated.																		

ORDER DATA

Analog Input Module for Temperature Measurement, 8 Channels, 10 Bit Resolution, For Direct Connection of PT100 Temperature Sensors, Measurement Range -25 to +475 °C, Not Galvanically Isolated

ECPT81-0 Three Wire Connection

ECPT81-1 Four Wire Connection

ECHNICAL DATA	PT81-0	PT81-1							
Number of Inputs		8							
Galvanic Isolation	NO								
Sensor Type Standard		PT100 DIN 43760							
Type of Connection	Three Wire	Four Wire							
Measurement Range	-25 to +75 °C or -25 to	+475 °C (software adjustable)							
Resolution		10 Bit							
Conversion Time	ca. 3 msec per Channel								
Measurement Precision in range -25 to +475 °C Basic Precision at 20 °C Offset Drift Gain Drift	±0.3 % + 0.011 % / R ¹⁾ ±0.039 % / °C + 0.00008%/R.°C ±0.017 % / °C	±0.5 % + 0.00022 % / R ⁻¹) ±0.039 %°C + 0.00008 %/R.' ±0.017 % / °C							
Measurement Precision in Range -25 to +75 °C Basic Precision at 20 °C Offset Drift Gain Drift	±0.5 % + 0.055 % / R ¹⁾ ±0.2 % / °C + 0.0004 % / R . °C ±0.022 % / °C	±0.5 % + 0.0006 % / R ⁽¹⁾ ±0.2 % / °C + 0.0004 % / R . ⁽²⁾ ±0.022 % / °C							
Linearization	YES / Hardware								
Measurement Current		2 mA							
Power Consumption At +8 V At +15 V At -30 V		1.4 W 0.9 W 1.5 W							
Documentation German English French Italian Spanish	Hardware Manual MULTICONTROL MAHWMULTI-0 MAHWMULTI-E MAHWMULTI-F MAHWMULTI-I MAHWMULTI-I								

CONNECTIONS



+ and - PT100 Sensor Connections S+ and S- Sense Line Connections

S+ remains free with three wire connections

SOFTWARE OPERATION

The analog inputs are controlled with standard function block TINB. This function block is a standard component of software package SWSPSSTD01-0 (see A7 "PLC Programming" for more information).

¹⁾ R ... Line Resistance