

Model EP7218 - 12AI / 6 AO Mixed Multifunction PIFA

Description

- ❑ See *General PIFA Specifications* on page 132.
- ❑ The EP7218 has 12 analog inputs of the type **Multisensor AI** and 6 analog outputs of the type **Standard AO**.

Specifications

Power Supply

Supply voltage.....	24 V DC
tolerance.....	18–30 V DC
power consumption with no load.....	electronically fused to 300 mA

Internal Power Consumption

5V.....	70 mA
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Analog Inputs 12

Basic resolution.....	12 bits
Measurement range.....	individually configurable
.....	determined by program parameters
Temperature (Ni1000, Pt1000, Pt100).....	-50 to 150°C
accuracy (excluding sensor).....	±0.2°C
Temperature Pt100, (extended range).....	0–600°C
accuracy.....	±0.5°C
Voltage.....	0 to 10V, 0 to 200mV
input resistance.....	10 MOhm
accuracy (% of full scale).....	±0.1%
Resistance.....	0–2000 Ohm
accuracy.....	±3 Ohm
Conversion time.....	see software description
+C output for feeding of sensor, level.....	= Supply voltage
current limit, electronically fused.....	100 mA

Analog Outputs 6

Basic resolution.....	11 bits
Output range.....	0 to 10 V
accuracy.....	±0.2 % ±20mV at > 1000 Ohms load
Max current on one output.....	20mA, 10 V/500 Ohm
Max current on all outputs simultaneously.....	40 mA
Max current on all outputs simultaneously with 24V stabilized supply voltage.....	110 mA

Connections

See *General PIFA Specifications* on page 132 and its various sections for information on process connections.

All **AGnds** are internally linked to each other and to 24Vminus (connection 20).

To attain maximum accuracy and to specifications, each respective **AGnd** should be used as a reference for measuring voltage and resistance for its respective AI group. This also applies to resistance elements of the type Ni1000 etc.

As an example, the **Agnd**-connection 5 acts as an accurate measurement reference for AI1 and AI2.

The same applies for AO.

Figure 78. Connections for EP7218.

