

Model EP5012 - 12 AI Multisensor PIFA

Description

- See *General PIFA Specifications* on page 132.
- The EP5012 has 12 analog inputs of the type **Multisensor AI**.
- The EP5012 is also intended for 0–20mA transmitters.

Electrical Specifications

Power Supply

Supply voltage.....	24 V DC
tolerance.....	18–30 V DC
power consumption with max load.....	electronically fused to 300 mA
power consumption with no load.....	80 mA

Internal Power Consumption

5 V.....	70 mA
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Specifications

Analog Inputs	12
Basic resolution.....	12 bits
Measurement range.....	individually configurable
.....	determined by program parameters
Current.....	0 to 22 mA
input resistance.....	10 Ohm
current limit, active up to 12V, then transient protection is activated.....	25 mA
accuracy (% of value).....	±0,1 % ±20 uA
Temperature Ni1000, Pt1000.....	-50 to 150°C
accuracy (excluding sensor).....	±0,2°C
Temperature Pt100.....	-50 to 150°C
accuracy (excluding sensor).....	±0,3°C
Temperature Pt100, (extended range).....	0–600°C
accuracy.....	±0,6°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.....	250 mA

Connections

See also Chapter 8 *Connecting Active Transmitters to Inputs* and *General PIFA Specifications* and its various sections for information on process connections

All **AGnds** are internally linked to each other and to 24Vminus (connection 19).

To attain maximum accuracy and to specifications, each respective AGnd should be used as a reference for measuring voltage and resistance. This also applies to resistance elements of the type Ni1000 etc. As an example, the Agnd-connection 6 acts as an accurate measurement reference for AI1 and AI2.

Figure 75. Connections for EP5012.

