AEA 115, Analog Input Modules

Analog input module

The analog input modules from the Systeme Helmholz GmbH convert the analog signals from the process to the internal signal level of the programmable controllers. The signal lines are connected to the corresponding front connectors. You can identify them on the labeling strip.

Ordering Data

	Order-No.
AEA 115 16 voltage/current inputs or 8 Pt 100 resistance thermometer non-isolated	700-465-7LA13
Meas. range subm. 498 for AEA 115	
±50 mV/±500 mV/Pt 100	700-498-1AA11
±100 mV/±1 V	700-498-1AA21
±1 V/±10 V	700-498-1AA31
±2 mA/±20 mA	700-498-1AA41
4 ... 20 mA; 2-wire	700-498-1AA51
±500 mV/±5 V	700-498-1AA61
4 ... 20 mA; 4-wire	700-498-1AA71

Technical Data

Number of inputs	**16** voltage/current inputs, 8 Pt 100 resistance thermo-meters
Isolation	no
Permissible voltage between reference potential of a sensor and a central grounding point max.	± 1 V
Nominal input value	selectable for 4 chan. with meas. range submodules, see ordering data meas. range subm.
Digital representation of the input signal	12 bits + sign or 13 bits two's complement
Input resistance depending on meas. range submodule 700-498-1AA11 min. 700-498-1AA21 700-498-1AA31, 700-498-1AA61 700-498-1AA51, 700-498-1AA71 700-498-1AA41	 10 M Ω 90 k Ω 50 k Ω 31.25 Ω 25 Ω
Basic error limits ± 50 mV/Pt 100 ± 500 mV ± 1 V/± 5 V/± 10 V ± 20 mA/+ 4 to 20 mA	 ± 2 ‰ ± 1.5 ‰ ± 3.5 ‰ ± 2.5 ‰
Basic error limits ± 50 mV/Pt 100 ± 500 mV ± 1 V/± 5 V/± 10 V ± 20 mA/+ 4 to 20 mA	(0°C to +55°C) ± 5 ‰ ± 4.5 ‰ ± 7.7 ‰ ± 6.7 ‰
Conversion time (settable)	20 ms for 50 Hz 16.6 ms for 60 Hz
Supply voltage - nom. value	 DC 24 V
Current consumption - internal (at 5 V) typ. - external (at 24 V) typ.	 200 mA 20 mA/transducer
Cable length - shielded max. max.	 200 m 20 m/50 mV
Power loss (rated operation)	typ. 1.0 W
Space requirement	1 slot
Front connector	46-way
Permissible ambient temperature - operating - transport and storage	 0°C to +55°C -25°C to +75°C

Distribución: ER-SOFT, S.A. Email: er@er-soft.com, Tel: +34 916 408 408