

Input/output modules

Model number
IM461124A



Analog input module (IP20)

The AS-Interface analog input module enables 4-20mA analog signals to be monitored via AS-Interface. Once described as a bus for discrete I/O only, AS-Interface has devised a method to send these signals via AS-Interface using the new device profile (7.3).

Features

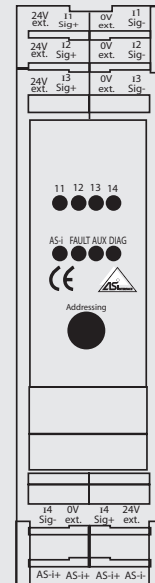
- Four (4) analog 4-20mA inputs
- 16-bit resolution
- Peripheral fault indication
- Easy commissioning via AS-Interface
- DIN rail mounting
- IP20



Specifications	
Device profile	ID=3, ID2=E, I/O = 7
Master requirement	AS-Interface 2.1 or later
Inputs	4 analog inputs (4-20mA)
Operating voltage	30 VDC AS-Interface voltage (AS-Interface power supply)
Operating current	<80mA
Voltage supply, sensors	Via AS-Interface or external 24VDC
Internal resistance	50 ohms
Max current per input	40mA
Resolution	16-bit (4000 - 20000)
Displays	AS-Interface voltage (AS-i), green LED AS-Interface communication error (fault), red LED Voltage supply 24VDC (AUX), green LED Diagnostics (DIAG), yellow LED Analog signal 1 (I1), yellow LED Analog signal 2 (I2), yellow LED Analog signal 3 (I3), yellow LED Analog signal 4 (I4), yellow LED
Operating temperature	0° to +70°C (+32° to +158°F)
Storage temperature	-25° to +85°C (-13° to +185°F)
Housing	Engineered resin, DIN rail mounting
Dimensions (L, W, H)	105mm, 23mm, 114mm
Ingress protection	IP20



Schematic drawing



Programming

Parameter P0

- 0: 60hz filter in a/d converter
- 1: 50hz filter in a/d converter

Parameter P1 & P2

Indicates which AI channels to enable

P1	P2	AI1	AI2	AI3	AI4
0	0	on	off	off	off
0	1	on	on	off	off
1	0	on	on	on	off
1	1	on	on	on	on

Parameter P3

- 0: peripheral fault not enabled
- 1: peripheral fault enabled