



HIMax[®]

Analog input module
Manual

SAFETY
NONSTOP



X-AI 32 01

3.5 Product Data

General	
Supply voltage	24 VDC, -15 %...+20 %, $r_p \leq 5 \%$, SELV, PELV
Current input	min. 500 mA (without channels/transmitter supplies) max. 1.5 A (if the transmitter supplies are short-circuited)
Current input per channel	min. 0 mA (without transmitter supply) min. 30 mA (with transmitter supply)
Operating temperature	0...+60 °C
Storage temperature	-40...+85 °C
Humidity	max. 95 % relative humidity, non-condensing
Type of protection	IP20
Dimensions (H x W x D) in mm	310 x 29.2 x 230
Weight	approx. 1.4 kg

Table 7: Product Data

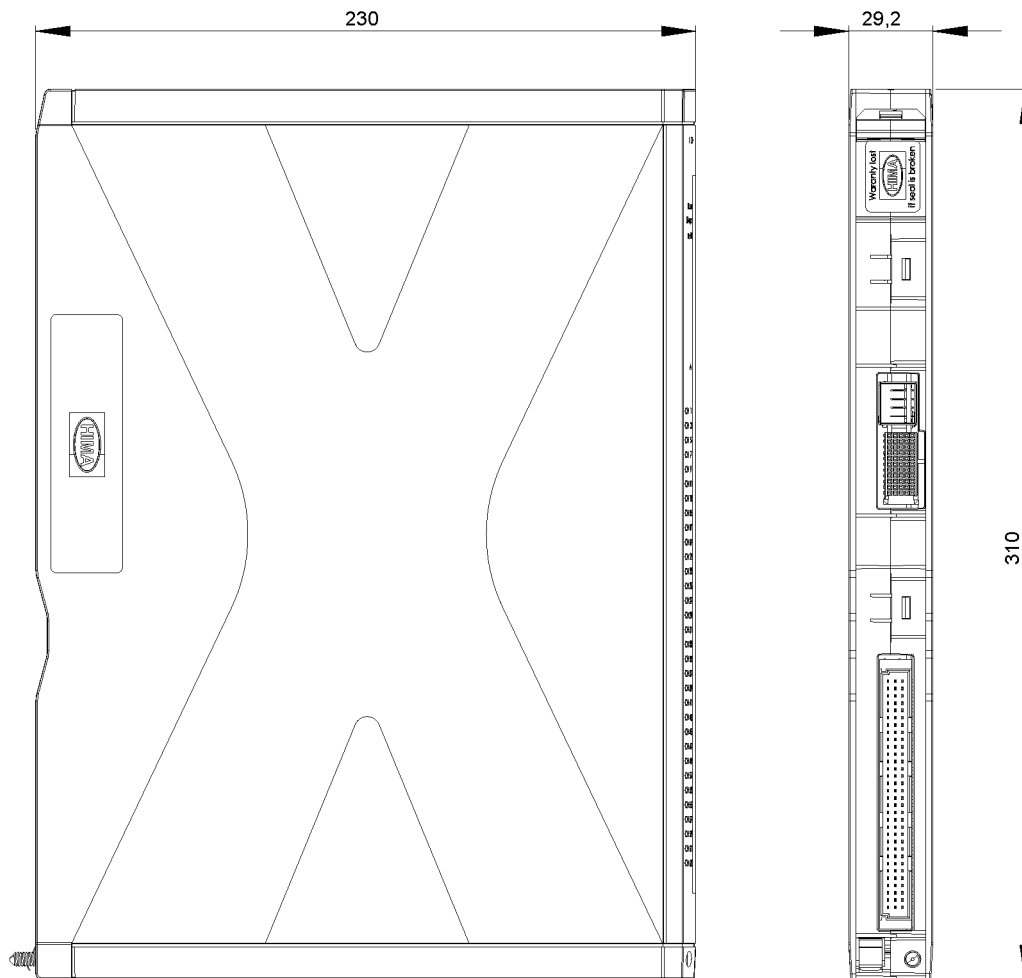


Figure 4: Views

Analog inputs	
Number of inputs (number of channels)	32 with common ground AI- (galvanic separation from the system bus and the 24 VDC supply voltage).
Nominal range	0/4...20 mA
Operating range	0...22.5 mA
Digital resolution	12-bit
Shunt for current measurement	200 Ω
Maximum permitted current via shunt	50 mA
Withstand voltage of the input	≤ 10 VDC
Interference voltage suppression	> 60 dB (common mode 50/60 Hz)
Measured value renewal (in the user program)	Cycle time of the user program
Sampling time	2 ms
Metrological accuracy	
Metrological accuracy on the entire temperature range (-10 °C...70 °C)	± 0.15 % of final value
Settling time to 99 % of the process value when the input signal changes	15 ms

Table 8: Specifications for the Analog Inputs

Transmitter supply	
Number of transmitter supplies	32
Output voltage for transmitter supply	26.5 VDC +0/-15 %
Output current of transmitter supply	max. 30 mA
Monitoring of transmitter supply	Undervoltage: 22.5 VDC Overvoltage: 30 VDC
Max. number of transmitter supplies that may be simultaneously short-circuited.	12 If more than 12 supplies are closed for longer than 3 seconds, the entire transmitter supply is switched off. If the overload disappears within 30 seconds, the transmitter supply is switched on again.
Maximum connectable load (transmitter + line)	≤ 750 Ω at 22.5 mA

Table 9: Product Data for the Transmitter Supply