# EPM-S402

Lenze · I/O System 1000 (EPM-Sxxx)

Two-channel analog input compound module for the Lenze I/O System 1000, accepting 0 … 20 mA / 4 … 20 mA current signals.

## Hardware

**Number of inputs:** 2 (analog, current)
**Input current ranges:** 0 mA … +20 mA
**Destruction limit (input current):** 40 mA maximum
**Maximum input resistance:** 110 Ω
**Resolution:** 12 bits
**Basic conversion time:** 2 ms (all channels)
**Measuring principle:** Successive approximation
**Cable length shielded:** 200 m maximum
**Input data size:** 4 bytes

## Communication

**Built-in ports:** None (backplane-bus I/O compound module)
**Protocols:** Not applicable (I/O compound module; fieldbus provided by EPM-S1xx bus coupler)
**Communication expansion:** None (mounts on the I/O System 1000 backplane bus)

## Electrical

**Supply voltage:** DC 24 V nominal (DC 20.4 … 28.8 V; backplane via bus coupler; load voltage L+ for sensors)
**Backplane Current Consumption:** 70 mA (from backplane bus, per official I/O System 1000 rated data)
**Power loss:** 0.7 W (per official rated data)
**Current consumption from load voltage L+:** 15 mA typical (without load)

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## Environmental

Operating temperature: 0 … +60 °C (horizontal and vertical mounting, per EN 61131-2; official I/O System 1000 ambient conditions)
**Storage temperature:** Not published by manufacturer
Relative humidity: Not published as numerical value (non-condensing; no specific %RH published in official I/O System 1000 manual)
**Protection rating:** Not published by manufacturer (DIN-rail backplane module)

## Physical

Dimensions (H×W×D): 109 × 12.5 × 76.5 mm (single-width I/O compound module housing, per official I/O System 1000 v7.1 Fig. 5-1 dimensions; all EPM-S2xx...S6xx compound modules share this housing)
**Weight:** Not published by manufacturer

## Lifecycle

Current: I/O System 1000 is an active Lenze product line; official product pages and reference manual v7.1 available **from Lenze (Last verified:** 2026-10)
**Audit status:** OFFICIAL_VERIFIED