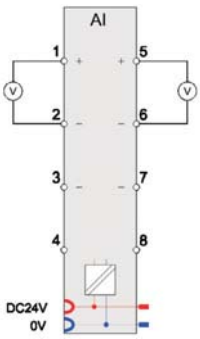
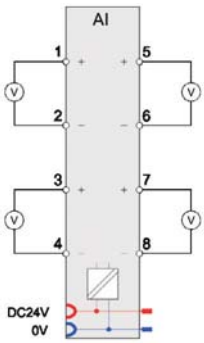
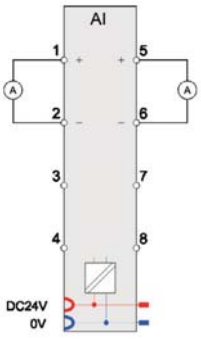
## Analog I/O

### Inputs
Rated data

| Version | AI 2, 12 bits, 0 ... 10 V | AI 4, 12 bits, 0 ... 10 V | AI 2, 12 bits, 0/4 ... 20 mA |
|---|---|---|---|
| **Order designation** | **EPM-S400** | **EPM-S401** | **EPM-S402** |
| **Function** | 2 analog inputs, voltage measurement | 4 analog inputs voltage measurement | 2 analog inputs, current measurement |
| **Current supply** | | | |
| Backplane bus current consumption | 70 mA | 70 mA | 70 mA |
| I/O supply current consumption | 15 mA | 15 mA | 15 mA |
| Electrical isolation | 500 V between backplane bus and I/O signal | 500 V between backplane bus and I/O signal | 500 V between backplane bus and I/O signal |
| **Signal** | | | |
| Number of inputs/outputs | 2/- | 4/- | 2/- |
| Signal | 0 ... 10 V DC | 0 ... 10 V DC | 0/4 ... 20mA |
| Filter | 1 kHz | 1 kHz | 1 kHz |
| Sensor | | | |
| Resolution | 12 bits | 12 bits | 12 bits |
| Usage error margin | +- 0.3 % | +- 0.3 % | +-0.3 % at 0 ... 20 mA, +-0.5 % at 4 ... 20 mA |
| Basic error margin (at 25 °C) | +- 0.2 % | +- 0.2 % | +-0.2 % at 0 ... 20 mA, +-0.3 % at 4 ... 20 mA |
| A/D conversion time | 4 ms (all channels) | 8 ms (all channels) | 4 ms (all channels) |
| **Communication** | | | |
| Width in the input process image | 4 bytes | 8 bytes | 4 bytes |
| Parameter data (PROFIBUS/PROFINET) | 6 bytes | 8 bytes | 6 bytes |
| **Status display** | | | |
| Module status | Ready for operation / error | Ready for operation / error | Ready for operation / error |
| Signal status | 1 LED per channel | 1 LED per channel | 1 LED per channel |
| **General** | | | |
| Scope of supply | I/O compound module (base module + electronic module) | I/O compound module (base module + electronic module) | I/O compound module (base module + electronic module) |
| Packaging unit | 1 | 1 | 1 |
| Enclosure | IP20 | IP20 | IP20 |
| Dimensions (height x width x depth) | 100 x 12.5 x 76 | 100 x 12.5 x 76 | 100 x 12.5 x 76 |
| Weight | 0.06 kg | 0.06 kg | 0.06 kg |
| **Wiring diagram** |  |  |  |