



# AI2440

## 4-20mA Analog Input Module

The AI2440 Analog Input module offers four channels of 4-20mA analog inputs together with four channels of digital input. Ideal for use with differential pressure, temperature and humidity sensors, the analog inputs can be used with loop powered sensors or with sensors that require a 24Vdc supply. Field wiring from either type of sensor can be connected directly to the input terminals without the need for any additional terminals. The 24V energisation supply available at each of the 4-20mA inputs has built-in current limiting allowing them to survive accidental short circuits without needing to replace any fuses.

The digital input channels have built-in energisation allowing them to be used with volt-free contacts and are ideal for use with door switches.

The AI2440 has dual RS485 busses allowing two PCs to simultaneously connect to the network of modules. When used with appropriate software such as enVigil-FMS, dual-redundant systems can be implemented to maximise data availability.

### Specification

- 4 Analog inputs for 4-20mA sensors
  - Loop powered
  - 24Vdc powered, current limited
- 4 Digital inputs
  - Direct connection to volt-free contacts
- DIN rail mounted enclosure
  - Width 23mm
  - Height 85mm
  - Depth 105mm
  - Weight 85g
- Power supply
  - 24VDC  $\pm 10\%$
  - 100mA (typ.), 200mA (max.)
- Interfaces
  - RS485 host, 38k4 baud, 1.2km
  - RS485 aux, 38k4 baud, 1.2km
- Environmental
  - Operating temperature 0 to 50°C
  - Storage temperature -20 to 60°C
- Measurement
  - DC setting accuracy  $\pm 0.05\%$
  - Temperature coefficient 25ppm/°C
  - Series mode rejection 65dB

### Ordering Information

- AI2440 Analog Input Module, 4 analog inputs, 4 digital inputs

