AI2800
8 Channel 4-20mA Analog Input Module

The AI2800 Analog Input module offers eight channels of 4-20mA analog inputs. 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 connectors without the need for any additional DIN rail 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.
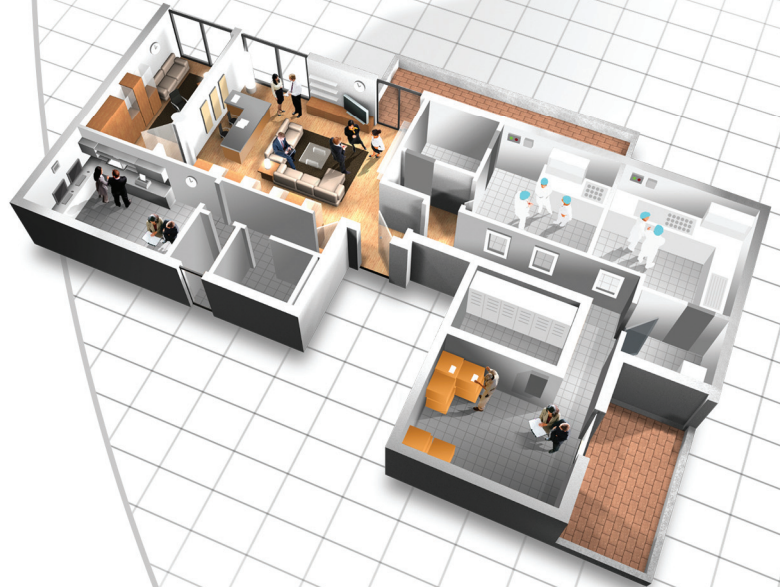
The AI2800 has dual RS485 busses allowing two PCs to simultaneously connect to the network of modules. When used with appropriate software such as enVigil-FMS, fault tolerant systems can be implemented to maximise data availability. Alternatively the second bus can be used as a host RS485 bus extender allowing more flexible network topolgies to be deployed.

Specification

- 8 Analog inputs for 4-20mA sensors
    Loop powered
    24Vdc powered, current limited
- DIN rail mounted enclosure
    Width 23mm
    Height 85mm
    Depth 105mm
    Weight 85g
- Power supply
    24VDC ±10%
    200mA (max.)
- Interfaces
    RS485 host, 19k2 baud, 1.2km
    RS485 aux, 19k2 baud, 1.2km
- Environmental
    Operating temperature 0 to 50°C
    Storage temperature -20 to 60°C
- Measurement
    DC setting accuracy ±0.05%
    Temperature coefficient 25ppm/°C
    Series mode rejection 65dB

Ordering Information

- AI2800 Analog Input Module, 8 analog inputs