



# Analog Input Modules

## 8-channel analog input modules, 12-bit resolution



### M-3802: 8 analog inputs, 4 to 20 mA, 12 bits

**Analog Inputs:** 8 channels

**Resolution in Ranges:** 12 bits, 3.91  $\mu$ A/bit

**Input Current Range:** 4 to 20 mA (single-ended)

**Data Format:** 16-bit integer (2's complement)

**Accuracy:**

•  $\pm 0.1\%$ , FSR @ 25°C

•  $\pm 0.3\%$ , FSR @ 0°C, 60°C

**Input Impedance:** 120 ohms

**Conversion Time:** 4 ms for all channels

**Power Consumption:** 80 mA @ 5 VDC

**Isolation:** I/O to logic (photocoupler isolation)

**Wiring:** I/O cable max. AWG14

**MTBF:** 7,375,920 hrs (Database: Telcordia/Bellcore)



### M-3810: 8 analog inputs, 0 to 10 V, 12 bits

**Analog Inputs:** 8 channels

**Resolution in Ranges:** 12 bits, 2.44 mV/bit

**Input Current Range:** 0 to 10 VDC (single-ended)

**Data Format:** 16-bit integer (2's complement)

**Accuracy:**

•  $\pm 0.1\%$ , FSR @ 25°C

•  $\pm 0.3\%$ , FSR @ 0°C, 60°C

**Input Impedance:** 500K ohms

**Conversion Time:** 4 ms for all channels

**Power Consumption:** 60 mA @ 5 VDC

**Isolation:** I/O to logic (photocoupler isolation)

**Wiring:** I/O cable max. AWG14

**MTBF:** 7,288,320 hrs (Database: Telcordia/Bellcore)



## Ordering Information

### Available Models

**M-3802:** Modular remote I/O module with 8 AIs, 4-20 mA, RTB, -10 to 60°C operating temperature

**M-3810:** Modular remote I/O module with 8 AIs, 0-10 VDC, RTB, -10 to 60°C operating temperature