



# Analog Output Modules

## 4-channel analog output modules, 12-bit resolution



### M-4402: 4 analog outputs, 4 to 20 mA, 12 bits

**Analog Outputs:** 4 channels  
**Resolution in Ranges:** 12 bits, 3.91  $\mu$ A/bit  
**Output 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  
**Output Impedance:** 500 ohms (max.)  
**Conversion Time:** 2 ms for all channels  
**Power Consumption:** 60 mA @ 5 VDC  
**Isolation:** I/O to logic (photocoupler isolation)  
**Wiring:** I/O cable max. AWG14  
**MTBF:** 7,840,200 hrs (Database: Telcordia/Bellcore)



### M-4410: 4 analog outputs, 0 to 10 V, 12 bits

**Analog Outputs:** 4 channels  
**Resolution in Ranges:** 12 bits, 2.44 mV/bit  
**Output 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  
**Output Impedance:** 5K ohms (max.)  
**Conversion Time:** 2 ms for all channels  
**Power Consumption:** 60 mA @ 5 VDC  
**Isolation:** I/O to logic (photocoupler isolation)  
**Wiring:** I/O cable max. AWG14  
**MTBF:** 6,219,600 hrs (Database: Telcordia/Bellcore)



## : Ordering Information

### Available Models

**M-4402:** Modular remote I/O module with 4 AOs, 4-20 mA, RTB, -10 to 60°C operating temperature

**M-4410:** Modular remote I/O module with 4 AOs, 0-10 VDC, RTB, -10 to 60°C operating temperature