



# Digital Input Modules

## 8-channel 24 VDC digital input modules



### M-1800: 8 digital inputs, sink type, 24 VDC

**Digital Inputs:** 8 channels  
**Type:** sink  
**On-state Voltage:** 24 VDC nominal, 11 to 28.8 VDC  
**Off-state Voltage:** 0 to 5 VDC  
**On-state Current:** 6 mA/point @ 28.8 VDC (max.)  
**Input Impedance:** 5.1K ohms (typical)  
**Filtering Time:** 1.5 ms (typical)  
**Common Type:** External common (single common)  
**Power Consumption:** 35 mA @ 5 VDC  
**Isolation:** I/O to logic (photocoupler isolation)  
**Wiring:** I/O cable max. AWG14  
**MTBF:** 15,759,240 hrs (Database: Telcordia/Bellcore)



### M-1801: 8 digital inputs, source type, 24 VDC

**Digital Inputs:** 8 channels  
**Type:** source  
**On-state Voltage:** 24 VDC nominal, 11 to 28.8 VDC  
**Off-state Voltage:** 0 to 5 VDC  
**On-state Current:** 6 mA/point @ 28.8 VDC (max.)  
**Input Impedance:** 5.1K ohms (typical)  
**Filtering Time:** 1.5 ms (typical)  
**Common Type:** External common (single common)  
**Power Consumption:** 35 mA @ 5 VDC  
**Isolation:** I/O to logic (photocoupler isolation)  
**Wiring:** I/O cable max. AWG14  
**MTBF:** 15,811,800 hrs (Database: Telcordia/Bellcore)



## 16-channel 24 VDC digital input modules



### M-1600: 16 digital inputs, sink type, 24 VDC

**Digital Inputs:** 16 channels  
**Type:** sink  
**On-state Voltage:** 24 VDC nominal, 11 to 28.8 VDC  
**Off-state Voltage:** 0 to 5 VDC  
**On-state Current:** 6 mA/point @ 28.8 VDC (max.)  
**Input Impedance:** 5.1K ohms (typical)  
**Filtering Time:** 1.5 ms (typical)  
**Common Type:** 16 channels for 2 COMs (single common)  
**Power Consumption:** 40 mA @ 5 VDC  
**Isolation:** I/O to logic (photocoupler isolation)  
**Wiring:** I/O flat cable 20-pin  
**MTBF:** 11,659,560 hrs (Database: Telcordia/Bellcore)





### M-1601: 16 digital inputs, source type, 24 VDC

**Digital Inputs:** 16 channels  
**Type:** source  
**On-state Voltage:** 24 VDC nominal, 11 to 28.8 VDC  
**Off-state Voltage:** 0 to 5 VDC  
**On-state Current:** 6 mA/point @ 28.8 VDC (max.)  
**Input Impedance:** 5.1K ohms (typical)  
**Filtering Time:** 1.5 ms (typical)  
**Common Type:** 16 channels for 2 COMs (single common)  
**Power Consumption:** 40 mA @ 5 VDC  
**Isolation:** I/O to logic (photocoupler isolation)  
**Wiring:** I/O flat cable 20-pin  
**MTBF:** 11,694,600 hrs (Database: Telcordia/Bellcore)



## 4-channel AC digital input modules



### M-1450: 4 digital inputs, 110 VAC

**Digital Inputs:** 4 channels, 110 VAC  
**On-state Voltage:** 120 VAC nominal, 85 to 132 VAC  
**Off-state Voltage:** 0 to 45 VAC  
**On-state Current:** 8 mA/point @ 132 VAC (max.)  
**Input Impedance:** 11K ohms (typical)  
**Common Type:** 4 channels for 2 COMs (single common)  
**Power Consumption:** 35 mA @ 5 VDC  
**Isolation:** I/O to logic (photocoupler isolation)  
**Wiring:** I/O cable max. AWG14  
**MTBF:** 19,482,240 hrs (Database: Telcordia/Bellcore)



### M-1451: 4 digital inputs, 220 VAC

**Digital Inputs:** 4 channels, 220 VAC  
**On-state Voltage:** 240 VAC nominal, 170 to 264 VAC  
**Off-state Voltage:** 0 to 45 VAC  
**On-state Current:** 12 mA/point @ 264 VAC (max.)  
**Input Impedance:** 22K ohms (typical)  
**Common Type:** 4 channels for 2 COMs (single common)  
**Power Consumption:** 35 mA @ 5 VDC  
**Isolation:** I/O to logic (photocoupler isolation)  
**Wiring:** I/O cable max. AWG14  
**MTBF:** 19,727,520 hrs (Database: Telcordia/Bellcore)



## Ordering Information

### Available Models

- M-1800:** Modular remote I/O module with 8 DIs, sink type, 24 VDC, RTB, -10 to 60°C operating temperature
- M-1801:** Modular remote I/O module with 8 DIs, source type, 24 VDC, RTB, -10 to 60°C operating temperature
- M-1600:** Modular remote I/O module with 16 DIs, sink type, 24 VDC, 20-pin, -10 to 60°C operating temperature
- M-1601:** Modular remote I/O module with 16 DIs, source type, 24 VDC, 20-pin, -10 to 60°C operating temperature
- M-1450:** Modular remote I/O module with 4 DIs, 110 VAC, RTB, -10 to 60°C operating temperature
- M-1451:** Modular remote I/O module with 4 DIs, 220 VAC, RTB, -10 to 60°C operating temperature

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