

Mercury

Mercury access control panels — installation guides, DIP switch settings, and wiring references for MP1501, MP1502, and MR52. Includes the Mercury Installation Assistant Utility (IAU) download.

- [MP1501 — Single Door Panel](#)
- [MP1502 — Dual Door Panel](#)
- [MR52 — Downstream Reader Interface](#)

MP1501 — Single Door Panel

Overview

The Mercury MP1501 is a single-door access control panel. It supports 1 door with 2 readers (in/out), 8 supervised inputs, and 4 relay outputs. Connects to a host controller (EP1502, EP2500, etc.) via RS-485.

Spec	Value
Doors	1
Readers	2 (Wiegand or OSDP)
Inputs	8 supervised
Outputs	4 relay
Communication	RS-485 to host controller
Power Input	12-24VDC

DIP Switches

The MP1501 has an 8-position DIP switch bank used to set the RS-485 board address. The address determines which port on the host controller this panel communicates on.

Address	SW1	SW2	SW3	SW4	SW5-8
0	OFF	OFF	OFF	OFF	OFF
1	ON	OFF	OFF	OFF	OFF
2	OFF	ON	OFF	OFF	OFF
3	ON	ON	OFF	OFF	OFF
4	OFF	OFF	ON	OFF	OFF
5	ON	OFF	ON	OFF	OFF
6	OFF	ON	ON	OFF	OFF
7	ON	ON	ON	OFF	OFF

SW5-SW8: Reserved — leave OFF. **Address 0** is typically not used in production (reserved for default/unconfigured).

Wiring Notes

- **RS-485 Bus:** Connect A(+) and B(–) to the RS-485 port on the host controller. Daisy-chain up to 32 devices per RS-485 segment. Terminate the last device with a 120Ω resistor.
 - **Readers:** Reader 1 = Door IN, Reader 2 = Door OUT. Wiegand: D0/D1/+5V/GND. OSDP: A/B/+12V/GND.
 - **Door strike:** Connect to Relay 1 (NC/COM/NO). Use NC for fail-safe (unlocks on power loss) or NO for fail-secure.
 - **Door contact:** Connect to Input 1 (supervised — use EOL resistors per system requirements).
 - **Rex (Request to Exit):** Connect to Input 2.
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Resources

- [MP1501 Installation Guide \(HID/Mercury\)](#)
- [Mercury Installation Assistant Utility \(IAU\)](#)

MP1502 — Dual Door Panel

Overview

The Mercury MP1502 is a two-door access control panel. It supports 2 doors with up to 4 readers (2 in/2 out), 16 supervised inputs, and 8 relay outputs. Connects to a host controller via RS-485.

Spec	Value
Doors	2
Readers	4 (Wiegand or OSDP)
Inputs	16 supervised
Outputs	8 relay
Communication	RS-485 to host controller
Power Input	12-24VDC

DIP Switches

The MP1502 uses an 8-position DIP switch bank to set the RS-485 board address (binary encoded, SW1=LSB).

Address	SW1	SW2	SW3	SW4	SW5-8
0	OFF	OFF	OFF	OFF	OFF
1	ON	OFF	OFF	OFF	OFF
2	OFF	ON	OFF	OFF	OFF
3	ON	ON	OFF	OFF	OFF
4	OFF	OFF	ON	OFF	OFF
5	ON	OFF	ON	OFF	OFF
6	OFF	ON	ON	OFF	OFF
7	ON	ON	ON	OFF	OFF

SW5-SW8: Reserved — leave OFF.

Wiring Notes

- **RS-485 Bus:** A(+) and B(–) to host controller RS-485 port. Daisy-chain up to 32 devices. Terminate last device with 120Ω.
 - **Door 1 readers:** R1 (IN) and R2 (OUT). **Door 2 readers:** R3 (IN) and R4 (OUT).
 - **Door strikes:** Relay 1 = Door 1, Relay 2 = Door 2. Relay 3–8 available for auxiliary outputs.
 - **Door contacts:** Input 1 = Door 1 position, Input 2 = Door 2 position (use supervised EOL resistors).
 - **Rex inputs:** Input 3 = Door 1 Rex, Input 4 = Door 2 Rex.
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Resources

- [MP1502 Installation Guide \(HID/Mercury\)](#)
- [Mercury Installation Assistant Utility \(IAU\)](#)

MR52 — Downstream Reader Interface

Overview

The Mercury MR52 is a downstream reader interface module used to expand a Mercury panel with additional reader ports. It adds 2 readers and 4 supervised inputs per module. Typically used with an EP1502 or similar host controller to support additional doors without a full second panel.

Spec	Value
Readers	2 (Wiegand or OSDP)
Inputs	4 supervised
Outputs	2 relay
Communication	RS-485 downstream from host panel
Power Input	12VDC from host or separate supply

DIP Switches

The MR52 uses DIP switches to set its downstream RS-485 address relative to the host panel. Multiple MR52 modules can be chained from a single host.

Address	SW1	SW2	SW3	SW4
1	ON	OFF	OFF	OFF
2	OFF	ON	OFF	OFF
3	ON	ON	OFF	OFF
4	OFF	OFF	ON	OFF
5	ON	OFF	ON	OFF
6	OFF	ON	ON	OFF
7	ON	ON	ON	OFF

Address 0 (all OFF) is not valid — each MR52 must have a unique address. **SW5-SW8:** Reserved — leave OFF.

Wiring Notes

- **Downstream RS-485:** Connect the MR52 A(+)/B(–) to the downstream RS-485 port on the host Mercury panel (not the upstream network port). This is a separate bus from the host-to-controller RS-485.
 - **Termination:** Place a 120Ω termination resistor on the last MR52 in the chain.
 - **Power:** 12VDC — can share the host panel power supply if within budget, or use dedicated 12V supply for longer runs.
 - **Readers:** R1 and R2 — connect same as a standard Mercury panel reader port (Wiegand or OSDP).
 - **Inputs:** 4 supervised inputs — typically used for door contact (Input 1) and Rex (Input 2) for each reader, plus auxiliary inputs.
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Common Use Cases

- Adding a second reader to a door (exit reader) where the host panel reader port is already used
 - Expanding a single-door panel to handle additional monitoring points without adding a full panel
 - Connecting readers in a remote location (elevator lobby, parking gate) with a longer RS-485 run
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Resources

- [MR52 Installation Guide \(HID/Mercury\)](#)
- [Mercury Installation Assistant Utility \(IAU\)](#)