

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 \(IAU\)](#)
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