PRD-IO-404A

Radio I/O Interface Unit

Autonomous & Intelligent radio telemetry

Turn radio communications into verified physical actions with the PRD-IO interface unit. Equipped with four relay outputs and four digital inputs, it delivers reliable, event-driven control across your site.

Take a perimeter gate, for example: send a radio text to trigger the motor. Instead of blindly executing the command, the PRD-IO monitors the gate's physical sensors. It then messages your radio back to confirm the exact real-time status—actively opening, fully open, or securely locked.

Configured via an intuitive web app, the PRD-IO ensures your critical operations, from access control to pumps and alarms, are never left to chance.

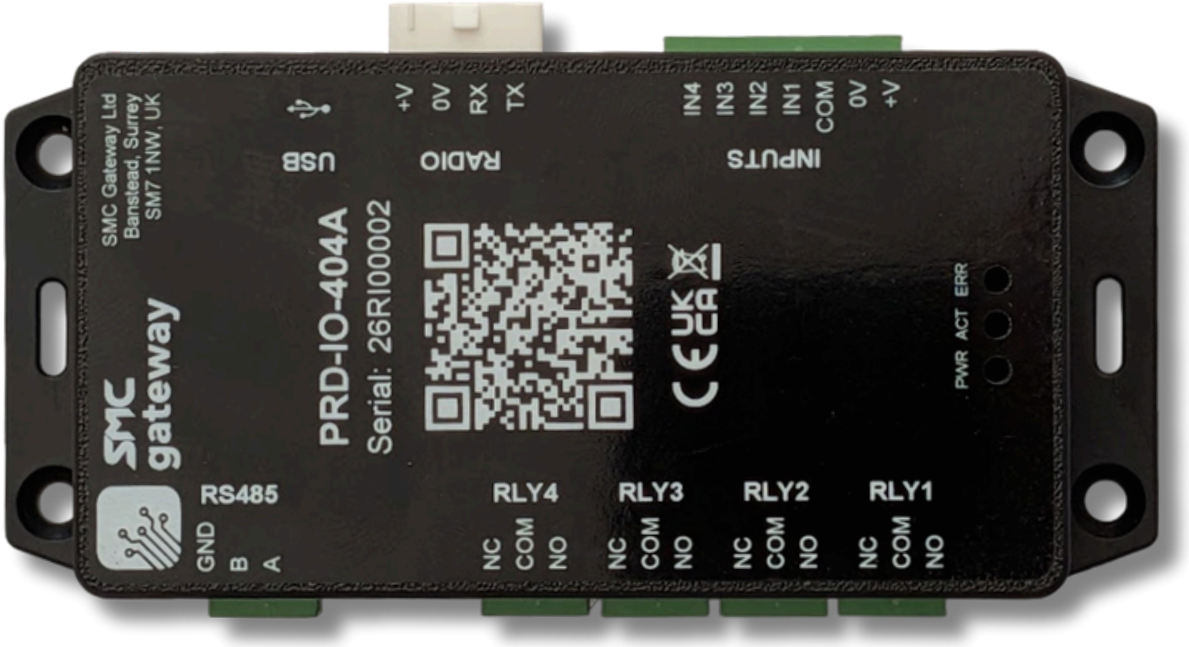


Core Capabilities

- Event-Driven Automation: The unit reacts to a variety of triggers, including text messages, input changes, timers, and radio connections.
- Flexible Outputs: Upon receiving a trigger, the unit can automatically switch relays, send text messages, or set internal variables.
- Custom Logic: System behaviour is governed by programmable state machines designed in the intuitive gState Machine web app, which allows simulation & testing in a visual environment.
- Reliable Operation: State machines start running immediately on power-up, and loaded logic configurations survive power cycles.
- Default Operation: Out-of-the-box functionality via pre-loaded default machines.

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Technical Specifications	
I/O Capacity	Four digital inputs / four relay outputs
Power	Powered by external 12VDC or from a mobile radio
RS485 MODBUS	Support for external digital and analogue input/outputs
Input Wiring	Versatile, opto-isolated digital inputs, supports volt-free & 5-28V DC input (4 off)
Configuration	Logic design via gState Machine web app; device configuration via USB
Output wiring	Form C (SPST) Relay output, rated at 1A 60VDC (4 off)
Radio Support	Hytera MD/HM
Dimensions (LxWxH in mm)	112 x 64 x28
Power Consumption	<100mA @ 12VDC
Material	ABS Plastic with flame Rating: UL94 V-0
Mounting	Four countersunk mounting holes and two oval slots for cable ties