Y951 Smart Remote Control Cabinet Specification



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1. Overview

Y951 is the Smart Remote Control Cabinet in the YenGear field-ready power-control range. It provides `2–16` circuits for pumps, fans, aerators, lighting, valves, and other field equipment. The cabinet combines centralized power distribution, per-circuit control, cloud scheduling and linkage, status records, and local manual operation. Network options are `4G`, `Wi-Fi`, and `RJ45 Ethernet`.

> **Global power notice:** Each cabinet is built for a specific project and destination market. Before ordering or installation, confirm the nominal voltage, frequency, phase and conductor arrangement, earthing system, prospective short-circuit current, and local compliance requirements. The site supply must match the product nameplate, approved wiring diagram, and order confirmation.

Cloud control, scheduling, and linkage require the cabinet to remain online. Actual load-running feedback, electrical monitoring, offline automation, and other non-standard functions require the corresponding project configuration.

Product Boundary

Product	Primary Role
Y951	Internet-connected multi-circuit remote control
Y952	Local temporary-power protection, monitoring, alarms, and event traceability
Y953	One-to-many control through an on-site wireless link

Select Y951 when personnel need to view, start, stop, or schedule multiple circuits over an internet connection. Select Y952 when local electrical safety and event traceability are primary. Select Y953 when one local control point must operate dispersed nodes without long control cables or an external network.

2. Ordering Information

Model Code

```text
Y951-xx-C
  |   |  └── C: Communication (G / W / R)
  |   └───── xx: Number of circuits (2–16)
  └─────────── Y951 series
```

Examples: `Y951-4-G` is a 4-circuit 4G model; `Y951-8-W` is an 8-circuit Wi-Fi model.

Suffix	Communication
`-G`	4G
`-W`	Wi-Fi
`-R`	RJ45 Ethernet

Available combinations are subject to order confirmation.

Required Order Information

Item	Required Details
Circuits and Control	Circuit count, independent control, scheduling, linkage, forward/reverse control, interlocking, and offline logic
Site Supply	Nominal voltage, frequency, phase/conductors, earthing system, prospective short-circuit current, and incoming protection
Loads	Voltage, rated power, starting current, starting method, and load type
Network	`4G`, `Wi-Fi`, or `RJ45`, including coverage or cable routing
Options	Monitoring, power/phase-loss alarm, audible/visual alarm, display, GPS, and feedback

Item	Required Details
Enclosure and Market	Material, dimensions, mounting, environment, local codes, certification, marking, and labeling

Standard supply includes one configured cabinet, product documentation, and warranty documentation. Options are included only when specified in the order.

3. Key Features

- `2–16` independently controlled circuits
- `4G`, `Wi-Fi`, or `RJ45` connectivity
- Remote start/stop, cloud scheduling, and project-configured linkage
- Local manual control, online status, and operation records
- Optional current monitoring, power/phase-loss monitoring, alarms, display, and load feedback
- Configurable load control, enclosure material, dimensions, and mounting

4. Technical Specifications

Electrical and Circuit Parameters

Parameter	Specification
Input Supply	Project-specific AC supply; must match the nameplate and order confirmation
Frequency	Confirmed `50Hz` or `60Hz`; dual-frequency use only when explicitly rated
Circuit Count	`2–16` standard circuits
Standard Load per Circuit	Reference value `2.2kW`; confirm voltage, load type, and starting conditions

Parameter	Specification
Higher Loads	Project-specific configuration required
Control Voltage	`12~24V DC`, depending on the control unit
Total Current	Reference configuration `20A`; final rating is project-specific

> `220V` and `380V` are project reference values, not universal input ratings. The delivered cabinet's nameplate and approved documents take precedence.

Communication and Platform

Parameter	Specification
Communication	`4G / Wi-Fi / RJ45 Ethernet`
Access	YenGear IoT Cloud Platform or mobile app
Control	Local manual, remote start/stop, cloud scheduling, and configured linkage
Online Requirement	Remote control, scheduling, and cloud linkage require network access
Records	Online status, circuit status, and operation records, subject to configuration
Upload Interval	Device- and platform-configured; `1h` is not a series-wide default

Optional Protection and Monitoring

Function	Configuration Boundary
Current Monitoring	Range, accuracy, and circuit count depend on the selected module
Power/Phase-Loss Monitoring	Detection and alarm logic are project-specific
Audible/Visual Alarm and Display	Optional; trigger and reset logic are project-specific

Function	Configuration Boundary
Overvoltage/Undervoltage Protection	Thresholds and action time depend on the installed device
Short-Circuit Protection	Breaking capacity depends on the installed protection devices
Self-Test and Load Feedback	Available only when included in the confirmed configuration

Protection thresholds, action times, breaking capacity, and monitoring accuracy are defined by the installed components and test documentation.

Enclosure and Dimensions

Parameter	Specification
Standard Material	Galvanized steel sheet
Optional Material	Stainless steel
Mounting	Wall or pole mounting
Operating Temperature	Depends on the enclosure and installed components
Dimensions	Depend on circuit count and configuration

Circuit Configuration	Reference Dimensions
4 circuits	`400 × 500 × 200mm` or `500 × 600 × 200mm`
6 circuits	`500 × 600 × 200mm`
8 circuits	`600 × 800 × 200mm`
16 circuits	`1500 × 700 × 370mm`

Final dimensions and environmental ratings are stated in the approved outline drawing and order documents.

5. Controls and Operation

Component or Mode	Function
Emergency Stop	Cuts the control circuit in an emergency; reset method depends on configuration
Run Indicator	Shows the contactor or control-circuit switching state
3-Position Knob	Manual on / manual off / automatic control
4-Position Knob	Manual stop / reverse / forward / automatic control for configured reversing circuits
Remote Control	Starts or stops a selected circuit through the platform or app
Cloud Scheduling and Linkage	Executes platform-issued schedules or configured data rules while online

An “On” status indicates the controller or switch state, not confirmed operation of the connected load. Use current monitoring, auxiliary contacts, or other feedback when actual operation must be verified.

6. Installation and Safety

- Mount the cabinet according to the approved outline drawing and site conditions.
- Before installation, verify the site supply, total load, protection coordination, enclosure rating, network conditions, and destination-market requirements.
- Connect circuits only according to the terminal markings and approved wiring diagram.
- Do not energize the cabinet if the supply does not match the nameplate and approved documents.
- Do not perform live wiring or modify internal components, conductor sizes, or wiring without authorization.
- Installation, testing, and maintenance must comply with local electrical codes and be performed by appropriately qualified personnel.

- Before energizing, verify insulation, earthing, phase sequence, protection operation, and start/stop operation for every circuit.

7. Important Notes

1. **Network Dependency:** Standard remote control, scheduling, and cloud linkage require an active network connection. Local manual control remains available when site power is normal.
2. **Configuration Boundary:** Monitoring, protection, alarms, displays, feedback, reversing control, and offline logic are included only when confirmed in the order.
3. **Load Boundary:** `2.2kW` per circuit is a reference value. Inductive and high-starting-current loads require verification of voltage, frequency, starting conditions, and protection coordination.
4. **Environmental Boundary:** Enclosure rating, material, dimensions, and operating temperature depend on the delivered configuration.
5. **Document Priority:** The nameplate, order confirmation, approved wiring and outline drawings, bill of materials, component documents, test records, and destination-market compliance documents govern the delivered unit and installation.