

Wiring Diagrams

User Guide

Auto-generated PNG diagrams showing terminal blocks and connections for any device in the database — download, forward, or reference on site.

Quick Reference

Command: Tap the Wiring Diagram button on any device card

Access: Requires active subscription or trial

Format: PNG image sent directly in the chat

Paywalled: Yes

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1. What Are Wiring Diagrams

Wiring Diagrams are auto-generated PNG images that show terminal blocks, connection points, wire colors, and pinouts for any device in the ArklyTech database. They are rendered from the structured wiring data stored for each device — not scanned PDFs — so they are always clean, readable, and up to date.

Each diagram is generated on demand by the bot using the Pillow image library. The result is a high-resolution PNG that you can download, forward to your crew, or reference on your phone while working at the panel.

Tip: Wiring diagrams complement the text-based wiring info on the device card. Use the diagram for a visual overview and the text for exact terminal details.

2. How to Access

Wiring diagrams are accessed from the device card — search for a device, then tap the diagram button:

- Search for a device by name (e.g., type LP4502 or HES 9600)
- The device card appears with all available buttons
- Tap Wiring Diagram to generate and receive the PNG
- The bot generates the image and sends it directly in the chat

The Wiring Diagram button only appears on device cards for devices that have terminal-level wiring data and are not wireless-only devices.

Note: This feature requires an active subscription or trial. Free-tier users will see a paywall prompt when tapping the button.

3. Reading the Diagram

Each wiring diagram follows a consistent layout. Understanding the labels and symbols will help you work faster on site:

Terminal Blocks	Labeled TB1, TB2, TB3, TB4, TB5 — correspond to physical terminal blocks on the device
Jumpers	Labeled J1, J7, etc. — factory jumper positions for configuration
Relay Contacts	COM, NO, NC — Common, Normally Open, Normally Closed relay connections
Data Lines	D0, D1 — Wiegand data lines; A+, B- for RS-485; SDA/SCL for OSDP
Power	PWR, GND, VDC — power supply connections with voltage specs
Wire Colors	Shown as colored lines or labels matching industry standards

Tip: If a terminal label on the diagram doesn't match the physical device, the device may be a different hardware revision. Check the install manual for revision-specific pinouts.

4. Supported Devices

Wiring diagrams are available for devices that have structured, terminal-level wiring data in the database. The bot uses pattern matching to determine if a device has enough detail to generate a useful diagram:

- Devices with terminal block references (TB1, TB2, etc.)
- Devices with jumper or pin references (J7, Pin 1, etc.)
- Devices with Wiegand data lines (D0, D1)
- Devices with relay contacts (COM, NO, NC)
- Devices with voltage specifications in the wiring field

Wireless-only devices (e.g., Wi-Fi locks, Bluetooth readers) typically do not have wiring diagrams because they have no terminal connections. The button will not appear on those device cards.

Note: If a device you need is missing a wiring diagram, submit a report via [/suggest](#) with the device name and any wiring info you have. The team will add it.

5. Tips & Best Practices

Get the most out of wiring diagrams with these tips:

- Download and forward — save the PNG and send it to your crew via any messaging app so everyone has the pinout on their phone
- Use alongside spec sheets — the diagram gives you the visual layout while the spec sheet has electrical ratings and distance limits
- Report missing diagrams — if a device should have a diagram but doesn't, use /suggest to let the team know
- Zoom in on details — the PNG is high resolution, so pinch-to-zoom on your phone to read small terminal labels clearly
- Cross-reference with text wiring — tap the Wiring button on the same device card to see the full text-based wiring information

Action	How
View wiring diagram	Search device, tap Wiring Diagram on the card
Save the diagram	Long-press the image in Telegram and save
Forward to crew	Tap the forward arrow on the image message
Report missing diagram	Type /suggest with the device name