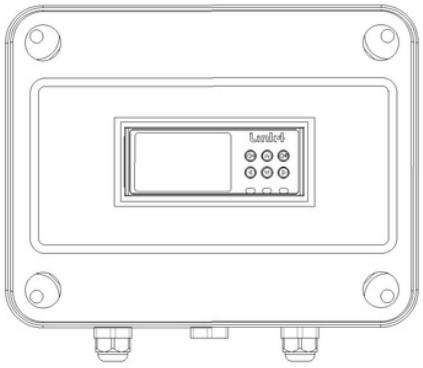
Basic Fan Controller Quick Setup and Installation Guide



Product Web Page

The Link4 Pearl Basic Fan Controller is engineered for easy remote control of local fans. It provides two 0-10V voltage outputs (up to 40mA sink/source) for controlling two separate fan groups.

The Basic Fan Controller operates fully standalone but unlocks its full potential when connected to the *Link4 Cloud Platform*. Features such as remote access, data logging, smart triggers, custom rules, and user management are available through your cloud account.

Cloud Connection Video

Important System Components

- ☐ **Pearl Basic FanController** in a weather-protected enclosure
- ☐ **24VDC wall-mountpowersupply** for controller power
- ☐ **Temperature andhumiditysensor** (purchased separately) for temperature control
- ☐ **Internet availability** for remote cloud access (not operationally required)
- ☐ **Wiring diagram** (also available from www.link4controls.com)
- ☐ **User Manual** downloadable from the Link4 Support Portal.

Troubleshooting & Support

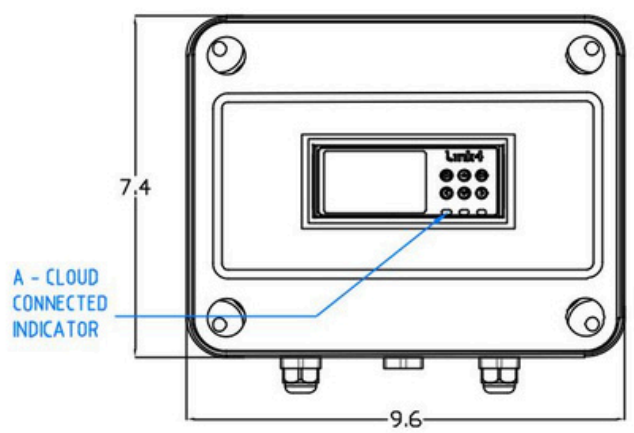
- Unit does not power up
- Fans do not run
- No cloud connection

- ☐ Check power connections
- ☐ Disc loads and check voltages
- ☐ Use a laptop and check Internet

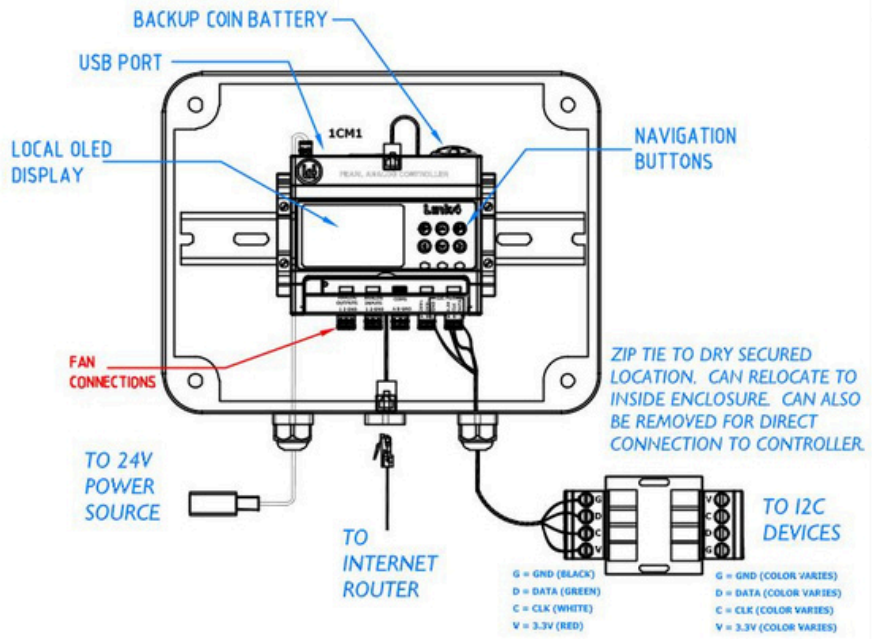
For advanced support, wiring guides, updates, and tutorials, visit **Link4 Support Portal**

PEARL BASIC FAN CONTROLLER

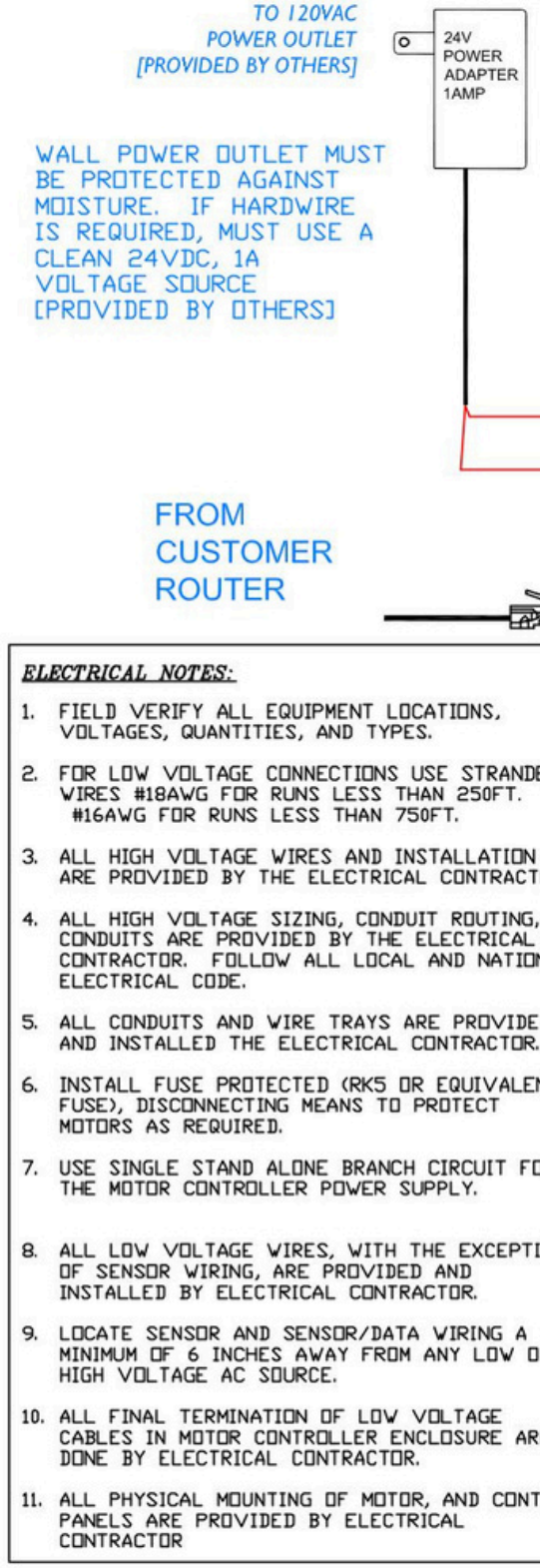
FRONT VIEW WITH DOOR



FRONT VIEW WITHOUT DOOR

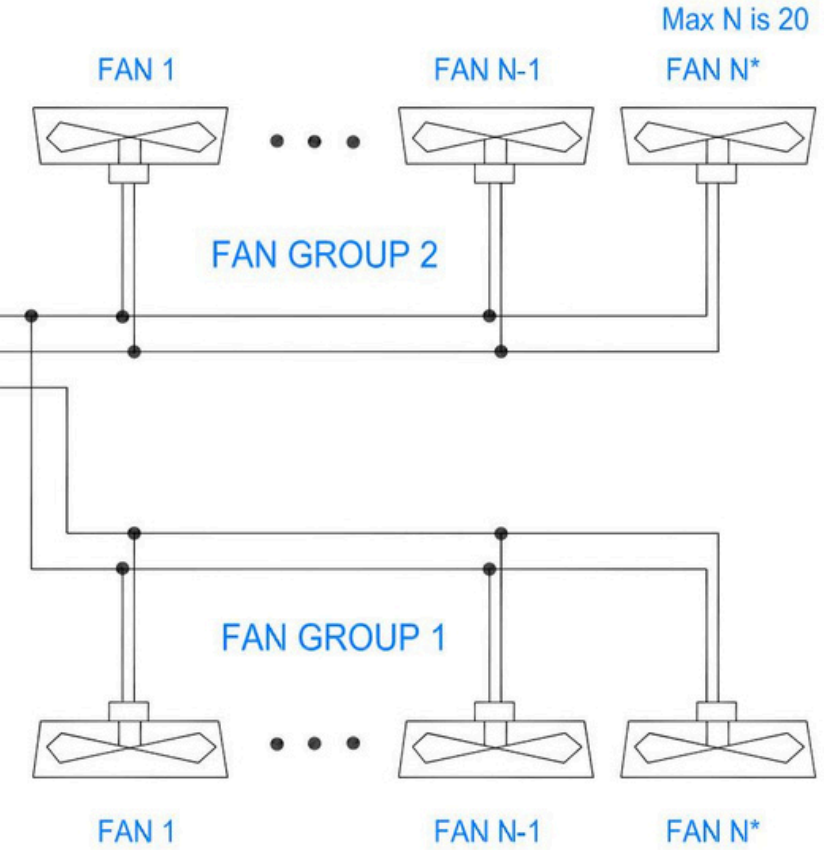


BOTTOM VIEW



ELECTRICAL NOTES:

1. FIELD VERIFY ALL EQUIPMENT LOCATIONS, VOLTAGES, QUANTITIES, AND TYPES.
2. FOR LOW VOLTAGE CONNECTIONS USE STRANDED WIRES #18AWG FOR RUNS LESS THAN 250FT. #16AWG FOR RUNS LESS THAN 750FT.
3. ALL HIGH VOLTAGE WIRES AND INSTALLATION ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
4. ALL HIGH VOLTAGE SIZING, CONDUIT ROUTING, CONDUITS ARE PROVIDED BY THE ELECTRICAL CONTRACTOR. FOLLOW ALL LOCAL AND NATIONAL ELECTRICAL CODE.
5. ALL CONDUITS AND WIRE TRAYS ARE PROVIDED AND INSTALLED THE ELECTRICAL CONTRACTOR.
6. INSTALL FUSE PROTECTED (RK5 OR EQUIVALENT FUSE), DISCONNECTING MEANS TO PROTECT MOTORS AS REQUIRED.
7. USE SINGLE STAND ALONE BRANCH CIRCUIT FOR THE MOTOR CONTROLLER POWER SUPPLY.
8. ALL LOW VOLTAGE WIRES, WITH THE EXCEPTION OF SENSOR WIRING, ARE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
9. LOCATE SENSOR AND SENSOR/DATA WIRING A MINIMUM OF 6 INCHES AWAY FROM ANY LOW OR HIGH VOLTAGE AC SOURCE.
10. ALL FINAL TERMINATION OF LOW VOLTAGE CABLES IN MOTOR CONTROLLER ENCLOSURE ARE DONE BY ELECTRICAL CONTRACTOR.
11. ALL PHYSICAL MOUNTING OF MOTOR, AND CONTROL PANELS ARE PROVIDED BY ELECTRICAL CONTRACTOR



*DAISY CHAIN / T-CONNECT UP TO 20 FANS TOGETHER PER GROUP FOR MULTIPLE FAN SPEED CONTROL® (UP TO 40mA MAX LOAD)

HOW TO CONNECT TO CLOUD

TECHNICAL SUPPORT PORTAL

AIR MOVEMENT PRODUCT PAGE

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Link4 CORPORATION

PROJECT:	PEARL - BASIC FAN CONTROLLER
TITLE:	WIRING DIAGRAM
SIZE: B	PART/DWG. NO.: PA-FC-8RD-I00-A00
REV.:	B
DRAWN: Y.P.	DATE: 09/01/2025
CHECKED: Y.P.	SCALE: NONE
SHEET:	01 OF 01