



**EHRESMANN
ENGINEERING**



Patented: 11,817,624 B1

Introducing the Ehresmann Engineering AERIAL.



Eliminate Extreme Temperatures on your Infrastructure Equipment

A sophisticated cellular tower array cooling system. With up to eighteen temperature controlled variable speed fans, array noise|temperature monitoring, and a remote monitoring app, you can count on your equipment running as efficiently as possible even in the most extreme heat!

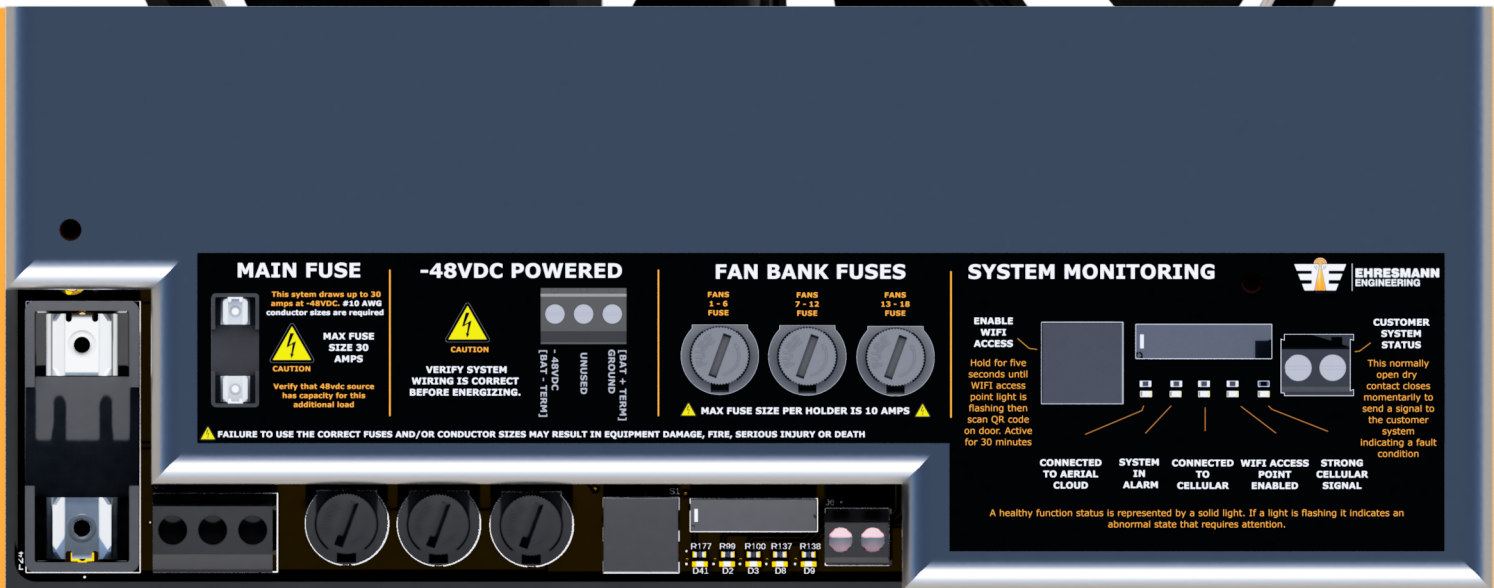


INTELLIGENT FANS

IP67 Westherproof, Variable Speed, Brushless DC, Tachometer, Auto Cutoff, Auto Restart, Ceramic bearings, Polarity and Electronically Protected Fans with quick connectors



AVAILABLE WITH UP TO 18 FANS



NEGATIVE 48VDC OR 115VAC 60HZ POWER OPTIONS

Aerial delivers advanced control and monitoring with support for up to 18 independently managed fans and five integrated sensors, giving you unmatched visibility and precision. Through the intuitive Aerial mobile and web app, operators can perform historical data analysis, investigate trends, and validate system performance over time.

With ****three intelligent operating modes—Automatic, Manual, and Weather-Based control—****Aerial adapts seamlessly to real-world conditions and operational needs. Advanced control and monitoring algorithms provide real-time responsiveness, while quick-connect interfaces simplify installation and expansion. Comprehensive operations tracking ensures accountability, insight, and confidence in every decision.

Aerial isn't just a controller—it's your system's new best friend.





NOISE PROTECTION

Noise sensors in the array and panel are used to monitor the sound level of fans and provide feedback to the fan control system. This allows the fan speed to be regulated and adjusted to maintain an acceptable noise level, which helps protect people and the environment from excessive noise pollution.



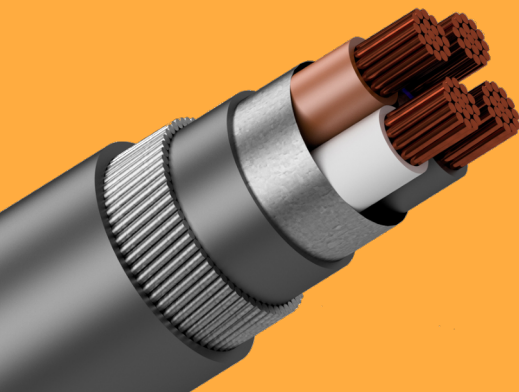
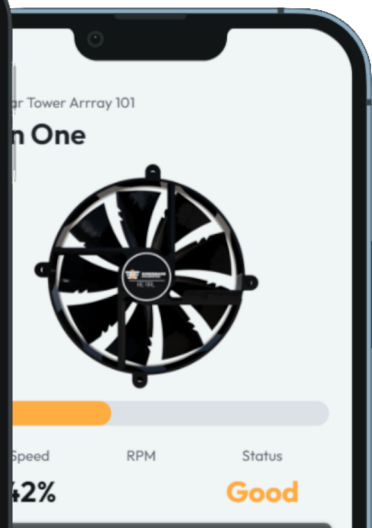
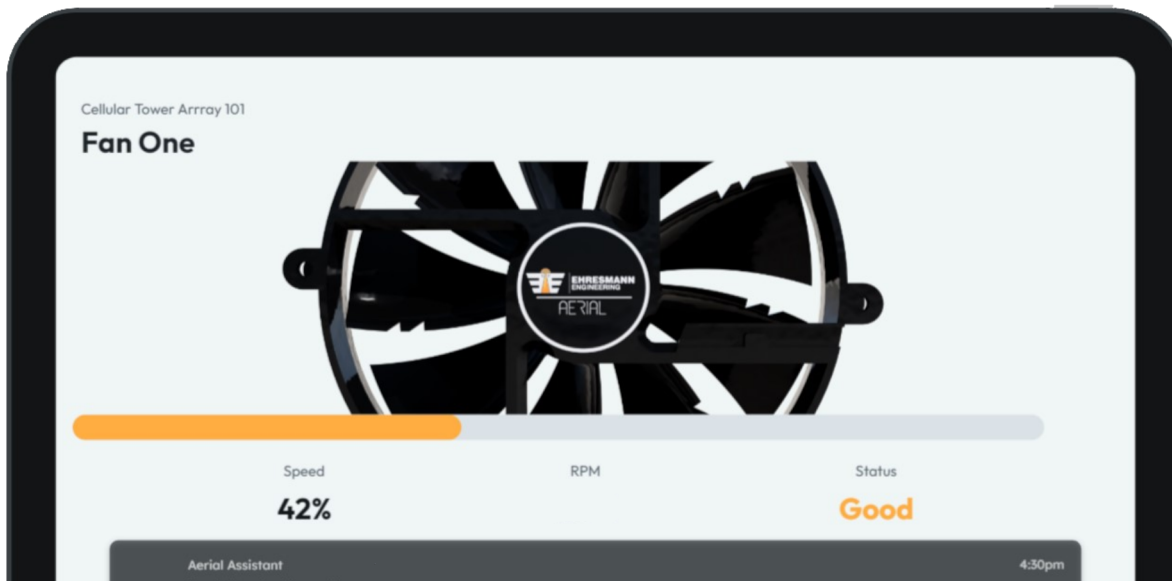
TEMPERATURE MONITORING

Aerial utilizes three temperature monitors throughout her system. Two are located in the array and the other is located on the exterior of her enclosure. She will use her temperature transmitters to vary the speed of the fans to make sure she only runs them as much as required. Combined with her panel exterior temperature sensor she can provide you an accurate measurement of how she is performing.



Aerial's app uses advanced features for real-time monitoring, so users can stay up-to-date with the latest trends and insights, allowing them to make informed decisions and take action when needed.

APP



PIM RESISTANT CABLE

We all hate PIM.

Understandably, interference can be a major concern. At Aerial, we've addressed this issue head-on. Our state-of-the-art shielded cables are expertly designed to significantly reduce any potential interference, ensuring a seamless and reliable experience. Each cable features a sophisticated drain system, meticulously engineered to safely draw interference away from the cable and efficiently discharge it at the panel. With Aerial, you're not just buying a product; you're investing in peace of mind and uninterrupted performance.





CABINET COOLING

Aerials main function is to keep your equipment cool in the most extreme heat. To do that she needs to make sure that she can handle the heat too! Aerial comes with a 175 btu/hour thermoelectric panel cooler to make sure everything runs at peak performance.

GETTING STARTED

Looking for the ultimate solution to cool your infrastructure equipment?
Get started with Aerial in five easy steps:

1. Measure your locations diameter and height 
2. Height from ground to top of the location + horizontal distance to panel location  
3. Select power source that is available at proposed panel Location 
4. Provide a data only SIM card 
5. Contact Your Ehresman Engineering Sales Representative 

Toll-Free: (800)291-6658 | Local: (605)665-7532 | Email: info@ehresmannengineering.com

Panel Specifications

Power: 1440 Watts
Voltage: -48 Vdc
Amps: 30 Amps
Temperature:-40 to 149 deg f
Enclosure: UL NEMA TYPE 4
FCC ID: 2AC7Z-ESPS3WROOM1U
FCC ID: XMR201709BG96
WIFI: 2.4Ghz IEEE 802.11 b/g/n
Cellular: LTE Cat M1/NB-IoT, GSM850/1900, GNSS
1575/1602 MHz

Panel Specifications

Power: 1440 Watts
Voltage: 120vac
Amps: 15 Amps
Temperature:-40 to 149 deg f
Enclosure: UL NEMA TYPE 4
FCC ID: 2AC7Z-ESPS3WROOM1U
FCC ID: XMR201709BG96
WIFI: 2.4Ghz IEEE 802.11 b/g/n
Cellular: LTE Cat M1/NB-IoT, GSM850/1900, GNSS
1575/1602 MHz

Manufactured For Ehresmann Engineering by Ocular IoT in Phoenix, Arizona

Designed in accordance with UL 94 V-0 material requirements and UL 796 construction practices, suitable for 48 VDC or 120VAC and incorporating FCC-certified RF modules.

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