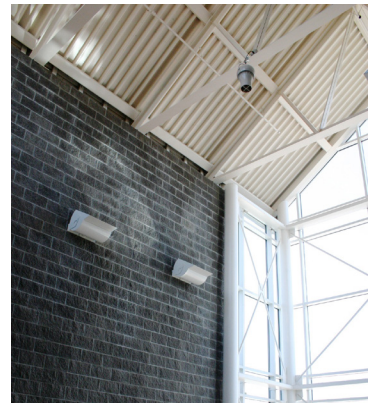# AIRIUS

# PEARLINK

## Reduce installation cost & control your Airius fan system over 2.4Ghz WiFi

## DISTRIBUTED COMFORT

The Pearlink control system offers total fan control from a desktop or mobile device. Pearlink integrates with existing WiFi to provide wireless connectivity for monitoring stratification levels and to provide individual or grouped fan control. This factory installed option will replace all control wiring and manual wall controls. Each installation includes a floor sensor to be installed near your thermostat to monitor stratification levels.

## WHERE WE HELP

› Reduce installation cost by eliminating control wiring
› Control fans individually or in groups over 2.4Ghz WiFi

## Features

› Interface is web-based (Chrome/Firefox), iOS, or Android
› Monitor temperature and humidity at fan and floor level
› Monitor Delta-T (stratification level)
› Monitor fans via the integrated tachometer
› Alerts for run time and/or stratification
› Upgrade firmware via Over the air (OTA) encrypted firmware updates

# PEARLINK FAN CONTROL

**Housing:** PC/ABS, Off white (cool gray 2c)

**Mounting:** Factory installed at time of ordering to each individual fan.

**Power Consumption**
Idle: 16mA
TX/RX: 200mA

**Wi-Fi Characteristics**
802.11b/g/n 2.4 GHz
TX Power 18 dBm @ 1DSSS
RX Sensitivity -96 dBm @ 1 DSSS
Range 100 meters

**Sensors & Accuracy**
Temperature Sensor +/- 1 ˚F
Humidity Sensor +/- 1% RH
Tachometer +/- 3%

**Interface**
Web-based (Chrome/Firefox), iOS, or Android (Mobile apps available in App Store and Google Play Store)

**Requirements**
2.4 GHz Wi-Fi network
Pearlink control installed on every fan
Pearlink floor sensor installed in each room fans are used
Phone or tablet with iOS 8 or later, or Android 4 or later required for setup
Browser for accessing the web dashboard to control devices (PC or MAC)
A free Pearlink Account

**Operating Conditions**
Temperature 32 to 120˚F
Humidity Up to 90% RH
Altitude Up to 10,000 ft

**Ordering**
The Pearlink control is a factory installed option. When ordering, a Pearlink control must be ordered with each fan and a Pearlink Floor Sensor ordered per room. (Example: Indoor gym with six fans will require all six fans to be fitted with the Pearlink control. One floor sensor will need to be mounted within the gym)

Pearlink-F = Pearlink Fan Controller
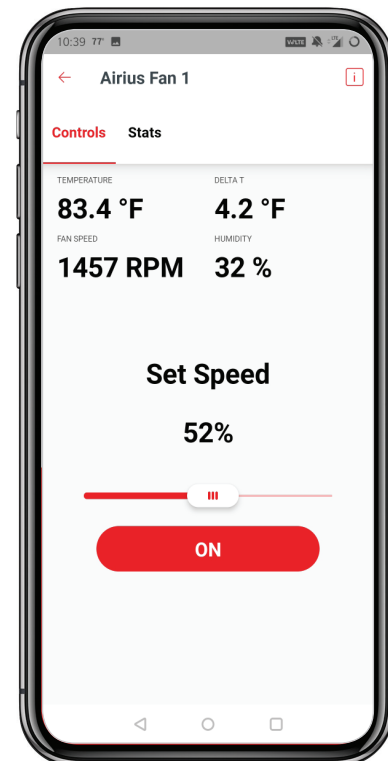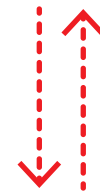Pearlink-T = Pearlink Floor Sensor

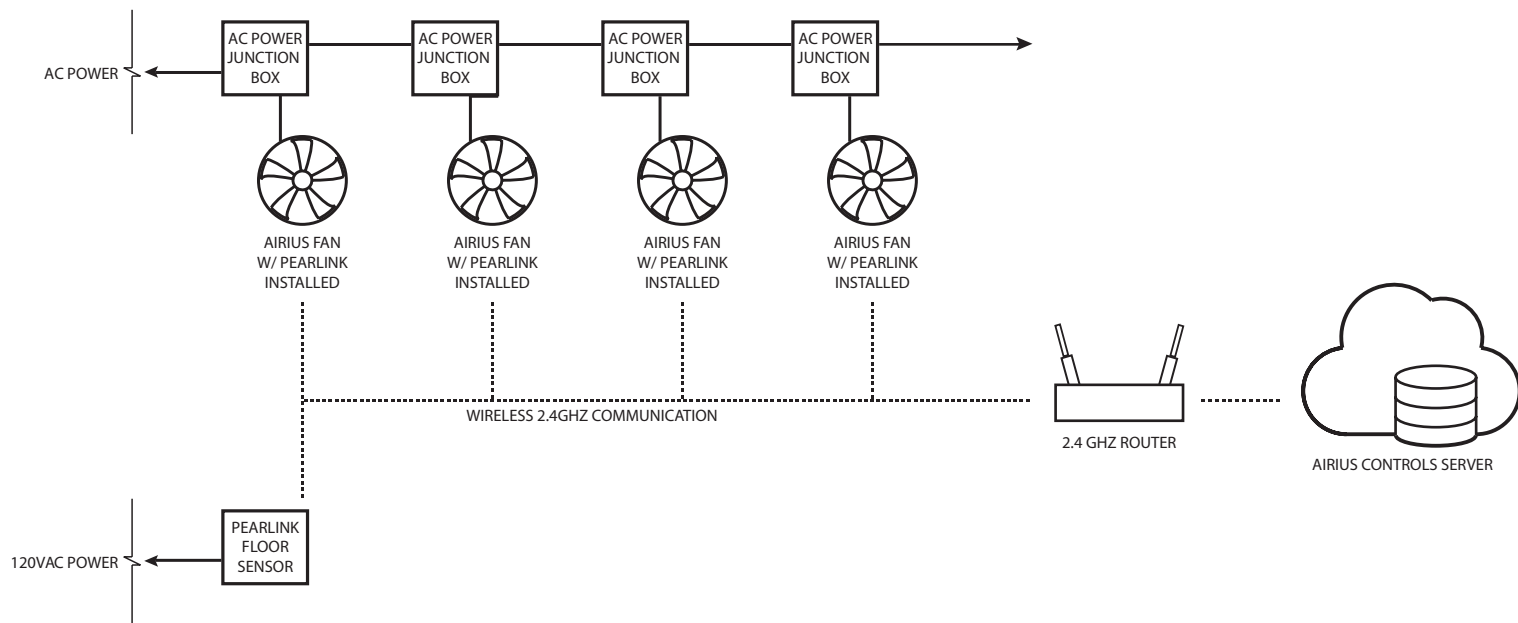**Warranty**
1 years parts and workmanship.

AIRIUS FAN SYSTEM

AIRIUS CONTROLS SERVER

PHONE OR TABLET

AC POWER

AC POWER
JUNCTION
BOX

AC POWER
JUNCTION
BOX

AC POWER
JUNCTION
BOX

AC POWER
JUNCTION
BOX

AIRIUS FAN
W/ PEARLINK
INSTALLED

AIRIUS FAN
W/ PEARLINK
INSTALLED

AIRIUS FAN
W/ PEARLINK
INSTALLED

AIRIUS FAN
W/ PEARLINK
INSTALLED

WIRELESS 2.4GHZ COMMUNICATION

2.4 GHZ ROUTER

AIRIUS CONTROLS SERVER

120VAC POWER

PEARLINK
FLOOR
SENSOR

**Housing:** PC/ABS, Off white (cool gray 2c)

**Power Cord:** 120VAC, 6 foot cord and plug provided.

**Mounting:** Mount to an interior wall 42" A.F.F.

**Recommendations:** Airius recommends specifying one floor sensor per room. Multiple Pearlink enabled fans can be assigned to the same floor sensor for measuring stratification levels.

**Power Consumption**
Idle:  16mA
TX/RX:  200mA

**Wi-Fi Characteristics**
802.11b/g/n 2.4 GHz
TX Power  18 dBm @ 1DSSS
RX Sensitivity   -96 dBm @ 1 DSSS
Range  100 meters

**Sensors & Accuracy**
Temperature Sensor  +/- 1 ˚F
Humidity Sensor  +/- 1% RH
Tachometer  +/- 3%

**Requirements**
2.4 GHz Wi-Fi network
120V power
Phone or tablet with iOS 8 or later, or Android 4 or later required for setup
Browser for accessing the web dashboard to control devices (PC or MAC)
A free Pearlink Account

**Operating Conditions**
Temperature 32 to 120˚F
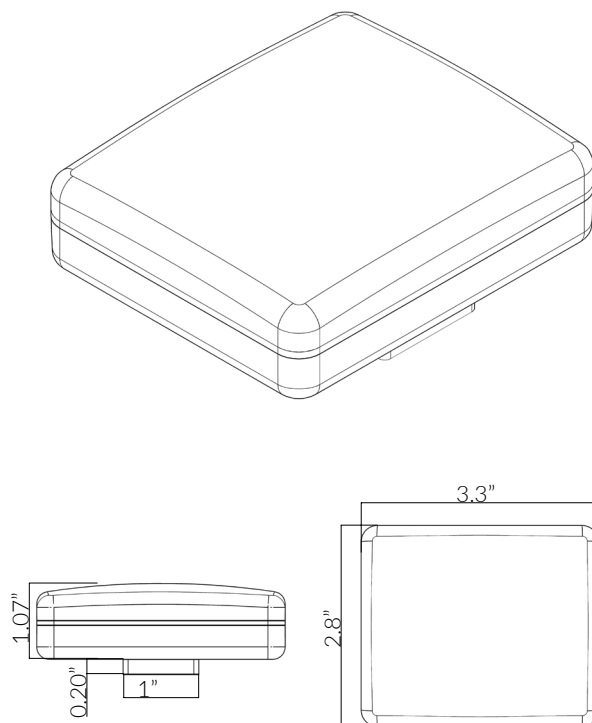Humidity Up to 90% RH
Altitude Up to 10,000 ft

**Ordering**
When ordering, a Pearlink control must be ordered with each fan and a Pearlink Floor Sensor ordered per room. (Example: Indoor gym with six fans will require all six fans to be fitted with the Pearlink control. One floor sensor will need to be mounted within the gym)

Pearlink-F = Pearlink Fan Controller
Pearlink-T = Pearlink Floor Sensor

**Warranty**
1 years parts and workmanship.

SCALE = NTS

3.3"
2.8"
1.07"
0.20"
1"