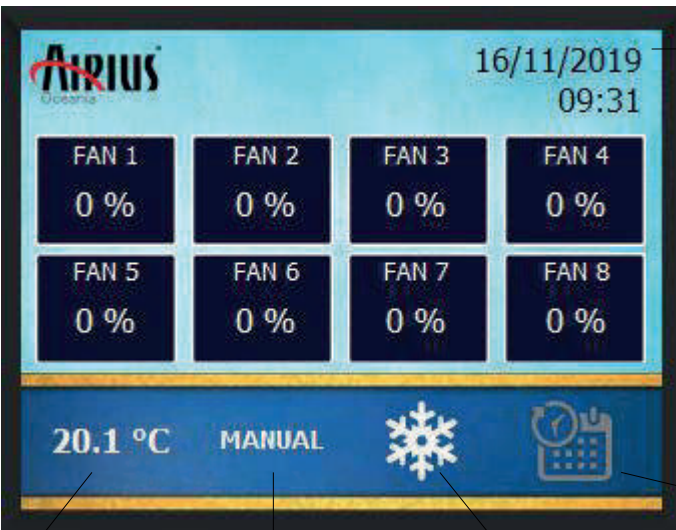**AIRIUS** ®
Airflow Reinvented

The Home Page

The home page provides an overview of current system status and operation mode.

The display will return to this home page if there is no user activity for 30 seconds.

The display will turn off if there is no user activity for 20 seconds.
Touch the screen anytime to reactivate.

TOUCH SCREEN PIN CODE: 2474

Time & Date display
Touch here for
settings & override

Current fan speeds
Touch to manually adjust

Time Schedule status
Color indicates occupancy status.
Touch to access settings.

**Current room
temperature**

Operating mode
Touch to switch between
Auto – Manual – Off

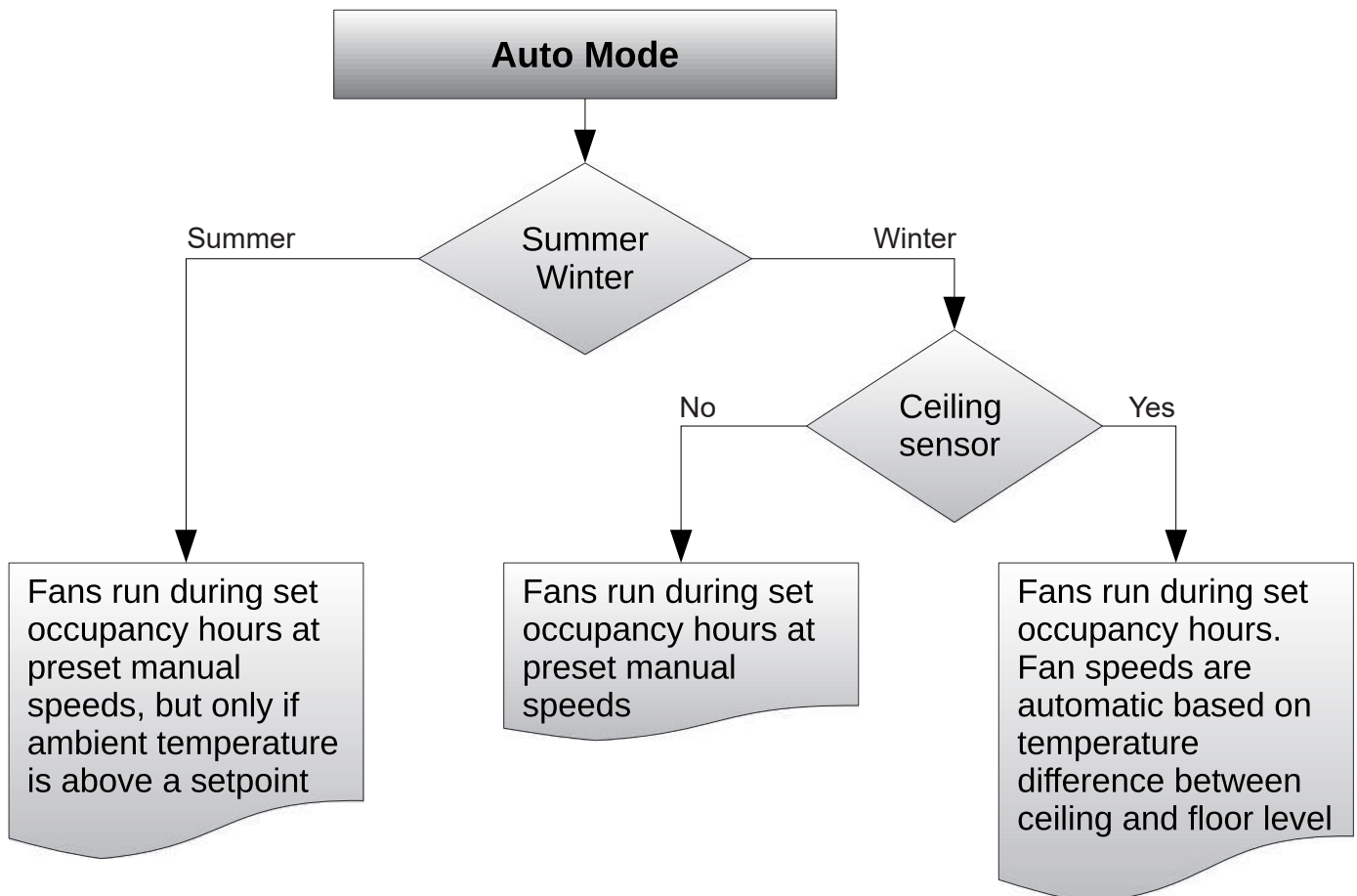**Summer/Winter mode display**
Touch to switch and for
configuration
NOTE: This icon will only appear when
system operating mode is in "Auto".

Some functions may be password protected. In that case, you will need to enter a valid PIN before continuing.

Modes of Operation

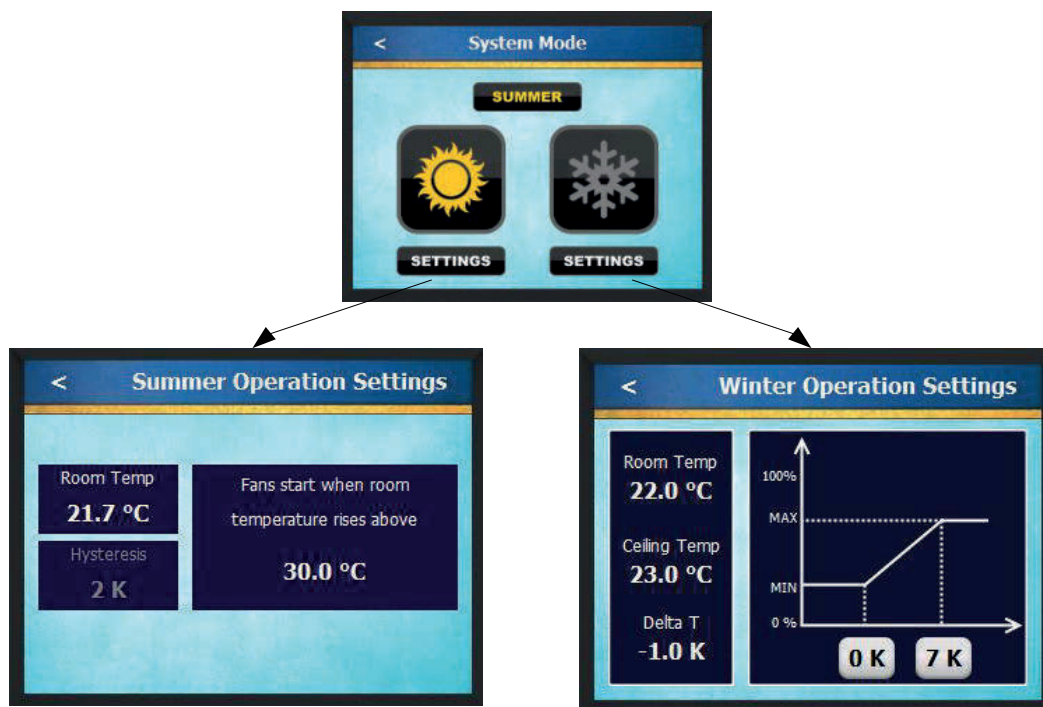On the home page, the user can select between three modes of operation:

OFF	All fans are off. Time schedule is disabled.
MANUAL	All fans run at individually preset manual speeds. Weekly time schedule is active. Therefore, fans automatically switch off outside of set occupancy hours.
AUTO	Fans automatically switch off outside of set occupancy hours. Fan speeds depend on summer/winter mode selection and system configuration, as detailed below

Auto Mode

Summer / Winter

Summer

Winter

Ceiling sensor

No

Yes

Fans run during set occupancy hours at preset manual speeds, but only if ambient temperature is above a setpoint

Fans run during set occupancy hours at preset manual speeds

Fans run during set occupancy hours. Fan speeds are automatic based on temperature difference between ceiling and floor level

Touch Screen EC Fan Controller
User Guide

Wall Mounted Programmable Touch Screen Controller
TS-01 - 230v 50/60Hz. 1Ph.

Page 3 of 8

Airflow Reinvented

Summer / Winter operation

Touching the summer/winter icon on the home page opens a page that allows switching between summer and winter operation.
For either mode, access is provided to further settings

Summer operation settings

Current room temperature is for display only.

Hysteresis value is fixed and can't be changed.

In summer mode, the fans don't start until the room temperature rises above a setpoint. The setpoint can be adjusted here.

Winter operation settings

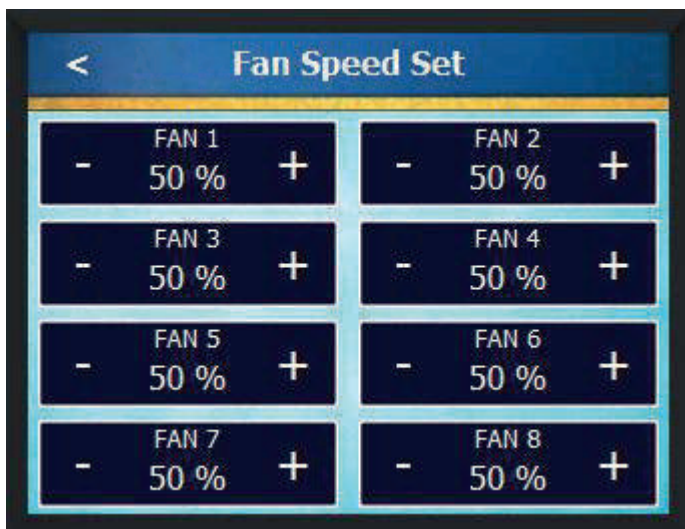These settings are available only if a ceiling temperature sensor is installed.

In this mode, fan speeds are automatically shifted between their minimum and maximum values based on temperature diffence (ΔT) between floor level and ceiling level. The intent is ensure floor to ceiling temperature difference is minimised.
(For min & max speed settings, see next page)

Room & ceiling temperature and ΔT displays are for information only.

The start and end points of ΔT for fan-speed adjustment can be individually adjusted here.

®

AIRIUS
Airflow Reinvented

Fan speed adjustment

Touching any of the fan speed display boxes on the home page opens a page that allows manual setting of fan speeds
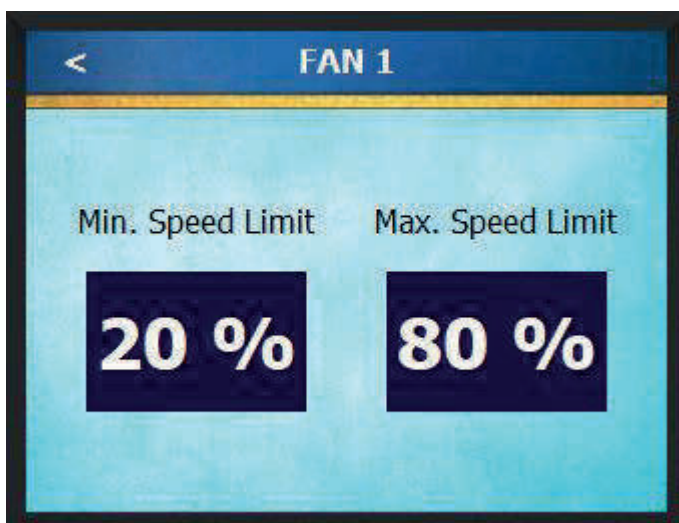

Adjusting manual fan speeds

Touch the + / - buttons to change fan speeds in increments of 5%

Touch the value display to access the min/max speed settings page for each fan.

The fans run at these manual speeds during occupancy hours:
- In MANUAL mode
- In AUTO / Summer mode: if ambient temperature is higher than a preset level
- In AUTO / winter mode: if no ceiling temperature measurement is available.

Adjusting min/max speeds

These are applicable only for winter operation with a ceiling temperature sensor (see previous page)
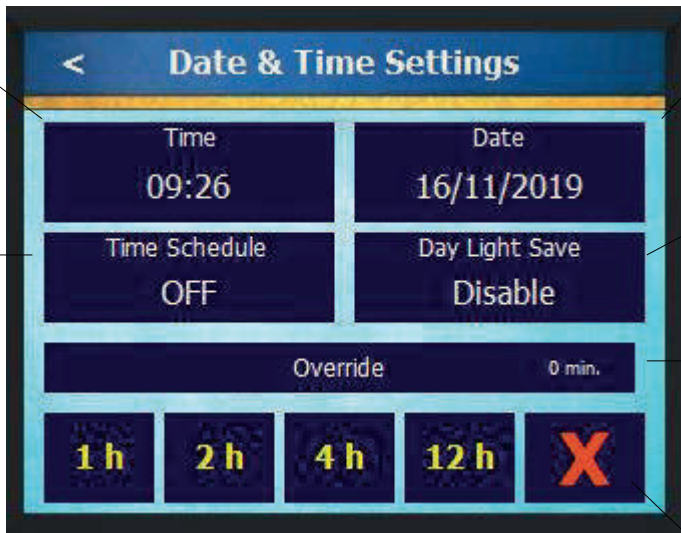
Touch either limit and enter new value to change.

Airflow Reinvented

Time & Date functions

This page allows time & date setting, as well as other time related functions.

The weekly time schedule can be overridden here, to start the fans temporarily outside of set hours when necessary.

It is also possible to enable/disable automatic switching between summer/winter time.

Current time
Touch to set

Current date
Touch to set

Current output of time schedule
Touch to configure weekly schedule.

Automatic daylight savings time changeover
Touch to enable/disable

Override countback
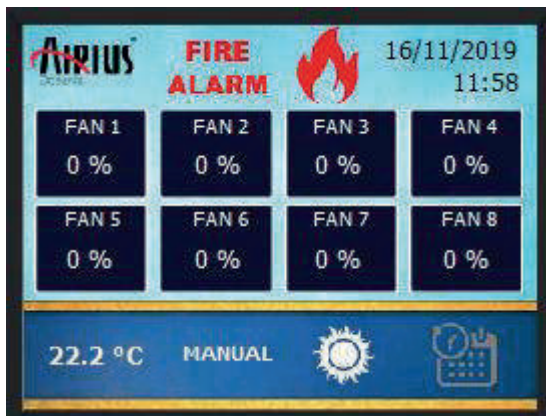Flashes when override is active and displays remaining time.

Temporary override
Buttons to switch on the fans temporarily for a set duration outside of occupancy hours.

Cancel Override Button
Touch to cancel the temporary schedule override

These functions may be password protected. In that case, you will need to enter a valid PIN before continuing.

Alarm conditions

Fire alarm

If there is a fire alarm connection into the system and it is activated, all fans will stop and a symbol displayed on the home page.
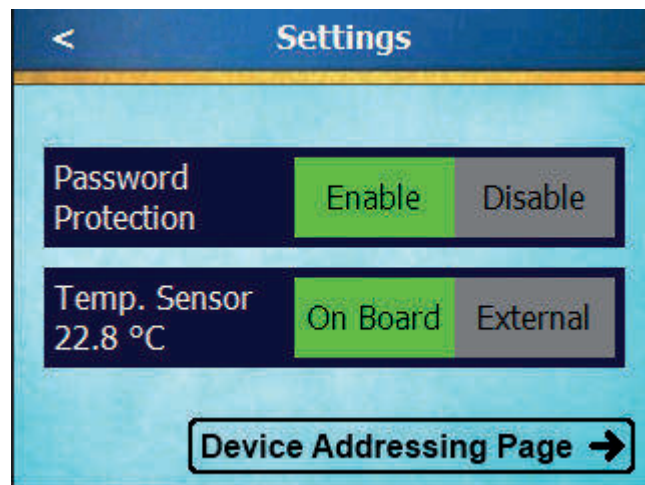

Communication problems

If the display loses communication with the input/output module, an alarm will be flashing on the home page.

Airius
Airflow Reinvented

Settings

Long-press (minimum two seconds) the Airius logo on the home page to access the Settings page.
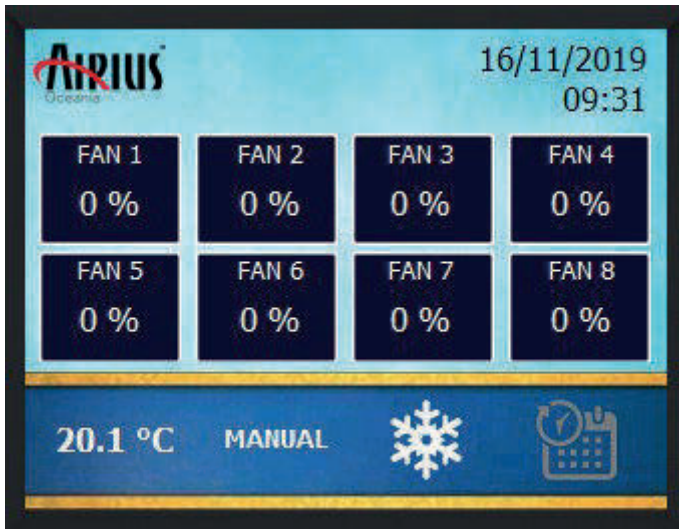
Here you can enable/disable whether password protection is required for access to the device functions (fan speed or operating mode changes, date/time settings etc.) To prevent accidental setting, a long press is required for these buttons.

PLEASE NOTE: *For this higher level access you may have to wait up to one minute between function changes to see the outcome.*

'Device Addressing' is an installers menu that requires the following higher-level password: 7913

® **AIRIUS**
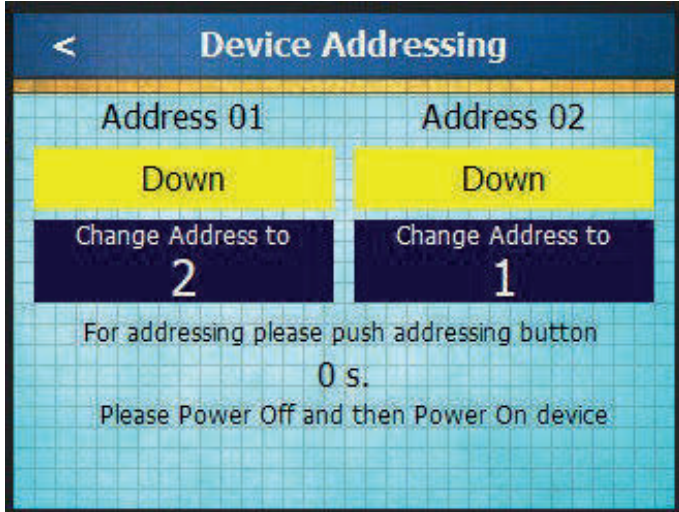**Airflow Reinvented**

I/O Module Addressing

First 4 fans (or four groups of fans) are connected to I/O module that is addressed as '1'

Last 4 fans (or four groups of fans) are connected to I/O module that is addressed as '2'

I/O modules are normally shipped addressed as module '1' unless marked otherwise.

However, it is easily possible to change any modules address by the installer. See below instructions.

Module communication status
Green: 'Normal'; communication is OK
Yellow: 'Down'; No communication

Address changing buttons

Timer and notice text
Hidden initially. Appears when Change Address button is pressed to display countdown.

How to Change Device Module Address

ONLY 1 DEVICE MUST BE CONNECTED for this procedure.
If you have two devices, temporarily disconnect one of them.

In that situation, only one device will show up as OK (green) on this screen, so you can see whether it is currently addresses as '1' or '2'

To change this address:
- touch its address change button.
- a 30 second countdown will be shown on the display
- power off and repower on the device during the 30 second window
- if you change your mind, let the count-down run without doing anything.