AoFrio

PRODUCT FEATURE

SCS Controller
Timed Cooler Disable

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AoFrio Ltd

P: +64 9 477 4500 **E:** sales@aofrio.com

Introduction

The "Timed Cooler Disable" feature enables cold equipment owners with installed SCS Controllers to disable the equipment when it has not been tracked by their systems within a certain period of time.

This helps prevent the loss of equipment by:

- Ensuring only equipment being tracked regularly remains operational
- Discouraging equipment theft and relocation because operation stops if removed from approved locations.

To prevent equipment being disabled by this feature when a store has simply not been visited by the owner or their representatives for a long period, there is a "Grace State" function. If the equipment enters the first alarm state, an alarm will display on the SCS Controller front panel prompting the store manager to make a service call.

The equipment owner's customer service desk can instruct the store manager how to restore the equipment's normal operation by entering a "Grace State" password through the SCS Controller's keypad. This extends the operational run time of the equipment by a few more weeks allowing enough time for the owner to send out a representative to connect to the equipment with an AoFrio app and update their records.

How it works

Normal Operation

This is the default operational status for equipment with an installed SCS Controller. When the Timed Cooler Disable feature is activated by the equipment owner, the SCS Controller starts a "Run - Lockout Time" timer.

Run - Lockout Time (rto)

This is the time the equipment will run for without connection to an AoFrio app before the SCS Controller system shuts down and the rto alarm is triggered.

Parameter name	Digital Display	Increments & Units	Range	Default
Run – Lockout Time	rto	1 week	4 to 52 weeks or disabled	Disabled

Once the "Run – Lockout Time" timer is activated:

- If any AoFrio application (eg Track, Field), or AoFrio Connected device (eg.: Gateway, Network Pro) successfully connects to the SCS Controller, the timer will restart.
- If the "Run - Lockout Time" timer expires:
    - o The SCS Controller moves into alarm state **AL38**
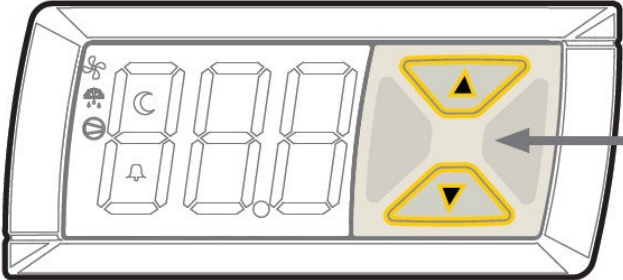   - o All outputs shut down

Alarm State #38 (AL38)

Once the SCS Controller moves into AL38, it will only exit this status:

- If any AoFrio application (eg Track, Field), or AoFrio Connected device (eg.: Gateway, Network Pro) successfully connects to the SCS Controller, then:
    - o The rto alarm will be cleared
    - o SCS Controller returns to **Normal Operation**
    - o The "Run - Lockout Time" timer will restart
- A technician or store owner enters the correct password into the SCS Controller via the keypad
    - o The rto alarm will be cleared
    - o SCS Controller will move to **Grace State** where the "Grace - Lockout Time" timer starts to run

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How to make equipment enter Grace State

1. Ask your AoFrio representative for the 4-digit pin code to enter the Timed Cooler Disable Grace State.

2. When the equipment is in AL38, hold down the **Up** and **Down** buttons together on the SCS Controller.

3. Enter the 4-digit PIN code.

Press Up and Down Button together followed by the 4-digit PIN code to enter the Grace State.

Grace State

The SCS Controller operates as per the **Normal Operation**. This means the equipment will operate as normal, however the store owner where the equipment is located should now make a service request to the equipment owner about resetting or visiting the equipment to make a connection with an AoFrio app.

Grace - Lockout Time (gto)

This is the time the equipment will run after the grace password has been entered before the SCS Controller system shuts down and an alarm is triggered.

* The grace period can only be applied once between tracking instances.

Parameter name	Digital Display	Increments & Units	Range	Default
Grace – Lockout Time	gto	1 week	2 to 12 weeks	4 weeks

The equipment will only move out of Grace State if any AoFrio application (eg Track, Field), or AoFrio connected device (eg.: Gateway, Network Pro) successfully connects to the SCS Controller. Then:

- o   SCS Controller returns to **Normal Operation**
- o   The SCS Controller restarts the rto timer

Otherwise, if the "Grace - Lockout Time" timer expires:

- o   The SCS Controller will go into alarm state **AL39**
- o   All outputs from the SCS Controller to the equipment will shut down (eg temperature and lighting control)

Alarm State #39 (AL39)

Once an SCS Controller has moved into **AL39**, all outputs from the SCS Controller to the equipment will shut down (For example, temperature and lighting control). It will only exit this state if any AoFrio application (eg Track, Field), or AoFrio connected device (eg.: Gateway, Network Pro) successfully connects to the SCS Controller. Then:

- o   The alarm will be cleared
- o   SCS Controller returns to **Normal Operation**
- o   The SCS Controller restarts the rto timer

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