

## OJ-Air2 Software version 6.31

OJ-Air2 software version 6.31 is released for up-grade with the SD-card. In the production at OJ Electronics version 6.11 is still used until further notice.

### Changes

Compared to version 6.11 there were following improvements:

### Functional description

No changes. Functional description OJ-Air2 01 is still valid. The new features will be added in OJ-Air2 02.

### Functionality

#### New features:

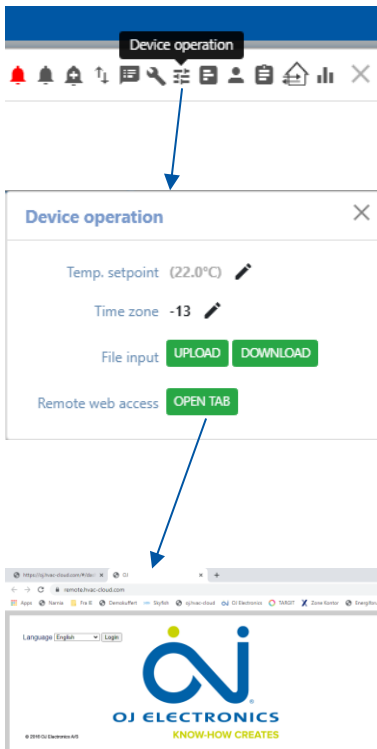
- Full remote access to web pages in OJ Air Cloud®
- Supply and Exhaust Back up fans
- Reversible heat pump control
- External DX cooling control
- Ext. DX cooling & heat pump control
- Fan wall controller [OJ-VCH-HMI3-6132](#) support
- Belimo direct Modbus actuators now possible on Supply and Extract air dampers

#### Improved features:

- Reduced airflow in case of low supply air temperature is now possible in all fan control loops.
- Summer night cooling is now possible in constant low speed.
- Temperature setpoint range Industrial (0° to +60°) or Commercial (+5° to +40°)
- Individual stop of DX compressors according to outdoor temperature.
- Filter alarm type can now be set independently on all four filters. (UOE 9076)



<https://oj.hvac-cloud.com/#/login>



## Web

- 3\_0\_0, 3\_0\_1, 3\_1\_0, 4\_0\_1, 4\_0\_2, 2\_0\_0, 2\_0\_1, 0\_4\_4 Back up fans and Back up dampers.
- 3\_0\_0, 3\_1\_0, 4\_0\_0, 4\_0\_2, 2\_0\_0, 2\_0\_1, 1\_1\_2, 1\_1\_6, 0\_4\_4 DX cooling & heat pump.
- 4\_0\_2 Fan wall alarm inputs
- 3\_0\_1, 2\_0\_0, 2\_0\_1, 0\_4\_4 Belimo Supply / Extract dampers.
- 1\_1\_3 Summer night cooling enable in low speed.
- 4\_0\_3 Industrial / Commercial temp. setpoint range
- 1\_1\_2, 1\_1\_6 Stop of DX compressors according to outdoor temp.
- 0\_4\_4, 1\_1\_0, 2\_0\_0 Removal of Outdoor and Room temp. sensor from the configuration now removes the sensor icon from web page. (UOE 9171)

## Cloud

- Full remote web access through Cloud connection.

## OJ-Air2-HMI-35T

- Stand by screen updated to AHC-3000 style incl. Alarm Icon.
- Air volumes corrected in recirculation mode (UOE 6026)
- HMI sw no 1.42.

## Hand terminal

- No changes.

## Alarms

- Alarms added for the new Belimo actuators and Fan wall alarm. Please see details in the alarm list at OJ Electronics customer log in.

## Modbus registers

- Fan wall alarm registers added
  - New damper registers added
- Please see BMS protocol at our web site.

## BACnet

- New Fan wall alarm registers added
- New damper registers added
- Humidifying setpoint available on Modbus Register 4x0228 are now also available on BACnet: AV 304 Humid\_SupSet.

Please see BMS protocol at our web site.

## Affected articles

OJ-Air2Master

## Coming into force

Version 6.31 is released for up-grade with SD-Card in week 44 2021.

## Compatibility

No changes are required when upgrading from version 6.11 to 6.31.

## Updating with the SD card

The OJ-Air2Master has to be with software version 6.10 or higher. The following files must be copied to the SD card:

- "air2\_v\_2\_08\_update\_rd.gz"
- "air2\_v4\_19\_107\_0\_update\_kernel.gz"
- "version.crc" (1kB, 04-11-2021, 17:40)
- "air2\_v631\_update\_jffs2.tar.gz"

**OBS:** This update requires four files on the SD-card, since the LINUX operation system will be updated to the latest version. Due to the large amount of data, this update has a duration of approximately 8 minutes, See details on next page.

**WARNING: Do not power off the OJ-Air2Master during the update.**

The files are available at OJ Electronics Customer Login:

<https://ojelectronics.com/support>

Up to 8Gb HC SD cards can be used from version 2.19.

The SD-card shall have a MBR with msdos partition table, and the first primary partition in it shall be VFAT (or FAT32) file system.

## Software 6.10 update sequence if current sw is 5.01 to 5.99:

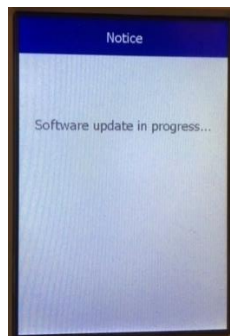
**WARNING: Do not power off the OJ-Air2Master during the update sequence. It will damage the internal files and the OJ-Air2Master will need service at OJ Electronics factory.**

1. Copy the four files to a SD card  
(Max. SD-card size is 8Gb)
2. Insert the SD card in the OJ-Air2Master
3. Wait approximately one minute until the new software is detected
4. Press update button in HMI
5. Wait 8 minutes until the update sequence has completed

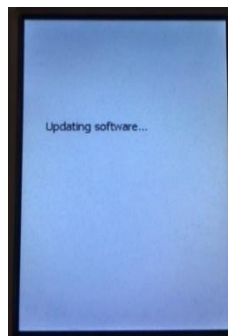
**DON'T touch anything, just let the process run.**

The HMI will show these screens during the update

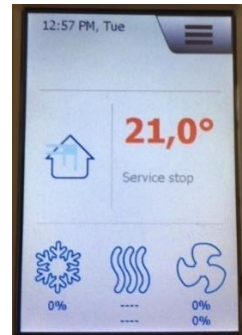
The first screen



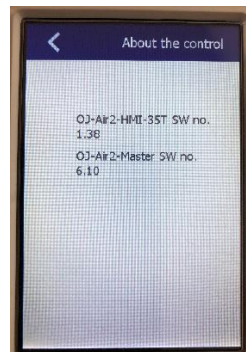
After 6½ minutes



After 8 minutes



6. Verify the update was successful



OJ-Air2-HMI-35T SW 1.38 is OK  
OJ-Air2-Master SW 6.10 is OK