## OJ-Air2 Software version 6.10

OJ-Air2 software version 6.10 is released for up-grade with the SD-card. In the production at OJ Electronics version 5.22 is still used, until further notice.

### Changes
Compared to version 5.24 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
- De-icing of rotor heat recovery using pressure transmitter.
- De-humidification is now possible using the Combi-coil for de-humidification cooling and heating 2 as after heater.
- De-humidification in applications without modulated mixing dampers is now possible without a Mixed air duct humidity sensor.
- "Outdoor air" and "Exhaust air" humidity sensors added for visualization.
- 4 add-on temperature sensors added for visualization.
- Outdoor temperature sensor TTH-6040-O can now be connected to OJ-Air2master RS485 port A and used as "Outdoor temperature (external sensor)".
- Electrical heater Min. air volume setpoint range changed from minimum 15% of the AHU Max. air volume to minimum 0%. The change is valid in Pre-heater, Heater 1 and Heater 2.
- All 6.xx sw versions can be sw updated to new or old 6.xx sw versions.
- OJ-Air2-HMI-20T can now be used as operation panel if no OJ-Air2-HMI-35T is connected. (UOE 8431) (UOE 7831)

Web
- 4_0_0, 3_1_0, 2_0_0, 2_0_1 De-icing of rotor heat recovery using pressure transmitter
- 3_1_1 User and Password can be edited at Factory level and Modules level.
  **OBS:** Since the web browser remembers your log-in, the web browser shall be closed completely and re-opened in order to enable a log-in at another user level.
- 4_0_0 "Outdoor air duct" and "Exhaust air duct" humidity sensors added.
- 0_4_4, 1_1_5, 2_0_0 "Outdoor air" and "Exhaust air" humidity added.
- 4_0_0, 2_0_0, 2_0_1 Add-on temperature sensors added
- 3_0_1, 2_0_0, 0_4_4 Outdoor temperature sensor TTH-6040-O added.

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- 0_5_0 A "Update" button will be visible if a valid new/old software version 6.xx is available on the SD-card.
- 1_1_4 Humidification control loop settings and alarm settings updated.
- 3_0_1 The text "Motor control inlet" is corrected to "Motor control supply" (UOE7486)
- 1_0_0 Current pressure corrected from ppm to Pa in languages Netherlands and Finnish. (UOE 7946)

Cloud
- No changes

OJ-Air2-HMI-35T
- The display of character ' is corrected. The change has effected French, German, English, Spanish, Italian, Dutch and Polish. (UOE 8221)
- Reset of Webserver login passwords added in Factory settings.

Hand terminal
- No changes.

Alarms
- Alarm 199 "Supply humidity low"
- Alarm 198 "Supply humidity high"
- Alarm 200 "Extract humidity low"
- Alarm 201 "Extract humidity high"

are available in humidifier applications.
- Alarm 60 "Low supply air temperature" is now active also in case of triggered "heating coil 1 error" (UOE 007711)
- Alarm 9 "Filter monitor flow compensation not calibrated" is now disabled for filters having time based filter alarm.

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Modbus registers

- Setpoints Low/Medium/High for Supply and Exhaust Fans in Control loop "Constant motor%" are added.
- Setpoint "Max Fresh Air" added.
- 3x0011 CO2/VOC sensor readings are now available in all control loops.
- 1x0500 "Common alarm – Supply fan" and 1x0502 "Common alarm – Extract fan" now includes communication alarms from EC controller, FanIO and FC controllers.

BACnet

- Setpoints Low/Medium/High for Supply and Exhaust Fans in Control loop "Constant motor%" are added
- Setpoint "Max Fresh Air" added
- AI9 CO2/VOC sensor readings are now available in all control loops.

https://ojelectronics.com/support

## Affected articles
OJ-Air2Master.

## Coming into force
Version 6.10 is released for up-grade with SD-Card in week 09 2021.

## Compatibility
No changes are required when upgrading from version 5.24 to 6.10.

## Updating with the SD card
The OJ-Air2Master has to be with **software version 5.00** or higher. The following files must be copied to the SD card:

- "air2_v208_update_rd.gz"
- "air2_v419_0_update_kernel.gz"
- "version.crc"  (1kB, 08-03-2021, 10:37)
- "air2_v610_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.
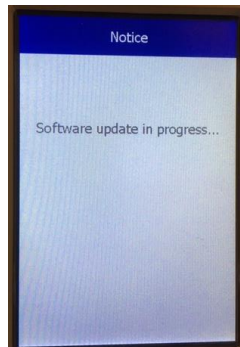
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**Software 6.xx update sequence if current software version is 5.01 or higher:**

**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.**
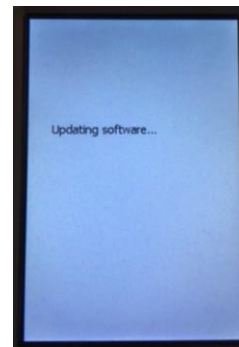
1. Copy the **four** files to a SD card (Max. SD-card size is 8Gb)
2. Insert the SD card in the OJ-Air2Master
3. Wait approximately one minute until the new software is detected
4. Press update button in HMI
5. Wait 8 minutes until the update sequence has completed
   **DON'T touch anything, just let the process run.**

   The HMI will show these screens during the update

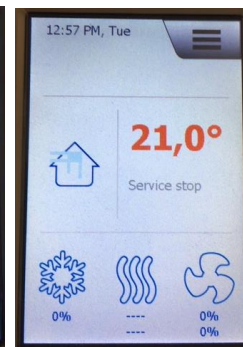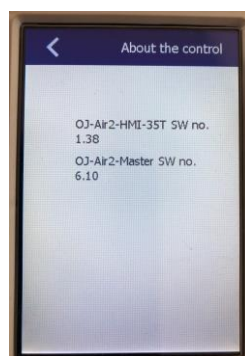   The first screen    After 6½ minutes    After 8 minutes



6. Verify the update was successfull



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