

## OJ-Air2 Software version 6.50

OJ-Air2 software version 6.50 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 6.40 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:

- No changes.

#### Improved features:

- De-humidification is now possible together with CO2 controlled dampers. (UOE 9806)
- Heat pump: "De-icing pressure, dynamic" setpoint range is increased from max. 100% to max. 200%.
- Heat pump: If the "Heatpump de-icing setpoint" = 100%, then the setpoint is reduced from 100% to 30% the last 30s.
- Heat pump: Heat pump and DX cooling set-points are limited during active compressor "min. stop time". Start of the next compressor in the step control awaits "min. stop time" expires for the current step.
- Internal "Outdoor air temperature" sensor is always used to switch the heat exchanger off if energy recovery is not possible
- Other features using outdoor temperature such as:
  - Fan ventilation compensation
  - Cooling Outdoor Air temp. stop
  - Summer night cooling
  - Sum/Winter comp. temp. set-point
  - Sum/Winter change over
  - Heat/cool coil pump start

## AutomatikCentret

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Use outdoor temperature sensors in this priority:

1. BMS outdoor temperature
  2. External outdoor temperature sensor Modbus
  3. External outdoor temperature sensor PT-1000
  4. Internal "Outdoor air temperature" sensor
- The unsupported combination "Constant VOC/CO2" fan control loop and "Modulated recirculation" can no longer be selected if Extract fan is configured (UOE 9117)
  - Preheater "Standby heating" set-point min. changed to -30°C
  - In Supply air unit configurations the Supply fan now starts according to its "Delayed start" settings (UOE 9131)
  - Forced cooling "Speed increase" is now active in all fan speeds and control loops except GreenZone (UOE 9611)
  - Min. supply air Cooling is now also active for combi coil (UOE 6416)
  - Zonemodule default value protection after power off (UOE 9851)
  - EI heater1 is now blocked if Min. airflow not is reached when flow sensor is installed in Constant speed% (UOE 9981)

### Web

- Zonemodule-A "Nominal flow" is now editable (UOE 9326)
- German texts corrected in Zonemodules (UOE6091)
- German and Norwegian texts corrected in Adiabatic cooler (UOE 6486)
- 1\_0\_0 Current Pressure value corrected in case of setting "Airflow unit >250.000m3/h" (UOE 6996)
- 0\_4\_3, 2\_5\_3 Current Pressure log corrected in case of setting "Airflow unit >250.000m3/h" (UOE 7836)
- 1\_5\_3 BACnet Device Id is added leading zeroes fitting the Object Identifier value (UOE 8556)

### Cloud

- Alarm Time stamps corrected (UOE 7852)

### OJ-Air2-HMI-35T

- Displayed Filter pressure value corrected in house. (UOE 10116).
- HMI sw 1.44.

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### Hand terminal

- No changes.

### Alarms

- All alarms are now supported by the E-mail service

### Modbus registers

- 8 parameters added.

Please see BMS protocol at our web site.

### BACnet

- Edited BACnet Object Name and Location is now saved in persistent memory (UOE 8926)
- 102 parameters added. All existing Modbus parameters are now available at BACnet.

Please see BMS protocol at our web site.

## Affected articles

OJ-Air2Master

## Coming into force

Version 6.50 is released for up-grade with SD-Card in week 11 2022.

## Compatibility

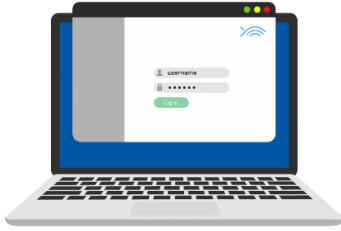
No changes are required when upgrading from version 6.40 to 6.50.

## 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, 04-03-2022, 12:56)
- "air2\_v650\_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.



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**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 6.10 update sequence if current sw is 5.01 to 5.99:

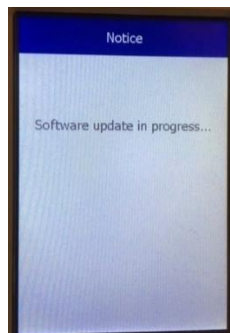
**WARNING: Do not power off the OJ-Air2Master during the update sequence. It will damage the internal files and the OJ-Air2Master will need service at OJ Electronics factory.**

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

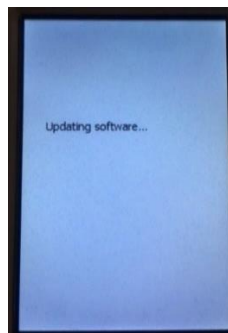
**DON'T touch anything, just let the process run.**

The HMI will show these screens during the update

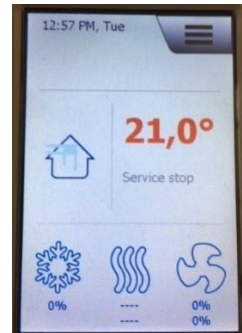
The first screen



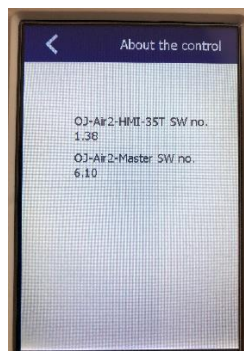
After 6½ minutes



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

