

Release of OJ-Air2 Software version 5.01

OJ-Air2 software version 5.01 is released for up-grade with the SD-card. In the production at OJ Electronics version 4.22 is still used, until change to another factory installed version is requested.

OBS: Cloud features requires Factory installed software 5.01.

Changes

Compared to version 4.22 there were following improvements:

Functionality

- Access to [OJ Air Cloud®](#) if software 5.01 was factory installed.
- Cross and Counter flow heat exchanger
 - Ice protection min. value is now -10°C. (was before -5°C)
 - Ice protection P-band min. value is now 1°C. (was before 2°C)
- Max. current for DV drives increased from 30.000mA to 32.500mA.
- EXT45-3 added.
- Gas heater reset Digital output added. It will be on during 2 seconds after activation of reset button in HMI-35T.
- Cooling is now blocked during Gas heater min. operation time.
- Stop signal now stops the AHU when after-cooling of Gas heaters expires.
- Enthalpy function now works as described in the training binder using a Mixed air humidity sensor and an Extract humidity sensor.
- Free cooling by Fresh air improved in operation mode "Modulated recirculation".

Web

- Cloud features (available if software 5.01 was factory installed)
 - 1_5_4 Terms & conditions and activation code.
 - 4_0_3 Enable/disable cloud features.
 - 4_0_2 Gas heater reset added (only visible if gas heater is selected)

OJ-Air2-HMI-35T

- Cloud features added in menu Home-Communication-Cloud: Terms & conditions and activation code. (Only available if software 5.01 was factory installed)

Hand terminal

- No changes

Alarms

- Alarm 60 “Low inlet temperature” is now released if
 - Control loop is constant supply temperature and
 - Configuration Pre-heater and optional Heat recovery, no After heaters or
 - Configuration Heat recovery, no Pre-heater and no After heaters.and the supply temperature is 10 °C lower than the setpoint.
- Alarm 60 “Low inlet temperature” is now released if
 - Control loop is room or extract temperature and
 - Configuration Pre-heater and optional Heat recovery, no After heaters or
 - Configuration optional Heat recovery, no Pre-heater and no After heaters.and the supply temperature is below +5°C.
- Delay increased from 3 to 10 seconds on:
 - Alarm 28 “Frost alarm, water battery 1
 - Alarm 173 “Frost alarm, water battery 2
 - Alarm 176 “Combi battery heating frost alarm”
 - Alarm 177 “Combi battery cooling frost alarm”
 - Alarm 219 “Preheater, Frost alarm”

Modbus registers

- % Cool power (without dew point sensor) for de-humidity added.
- CVM “Active energy” reading added

BACnet

- CVM “Active energy” reading added
- % Cool power (without dew point sensor) for de-humidity added.

See [protocol](#) on OJ Electronics website.

Affected articles

OJ-Air2Master

Coming into force

Version 5.01 is released for up-grade with SD-Card in week 4 2019.

Compatibility

No changes are required when upgrading from version 4.22 to 5.01.

Updating with the SD card

The OJ-Air2Master has to be with **software version 3.01** or higher. The following files must be copied to the SD card:

- “air2_v207_update_rd.gz”
- ” version.crc” (1kB, 22-01-2019, 11:56)
- ”air2_v501_update_jffs2.tar.gz”

OBS: This update requires three files on the SD-card, since the memory allocation has to be re-arranged in the OJ-Air2Master.

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 sequence.

The files are available at: <http://www.ojelectronics.com/Support/Customer-Login.aspx>

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



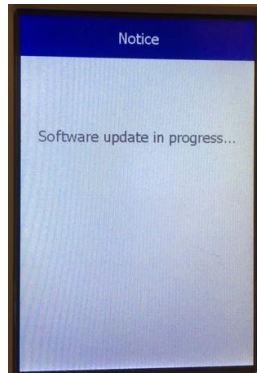
Software 5.01 update sequence:

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.

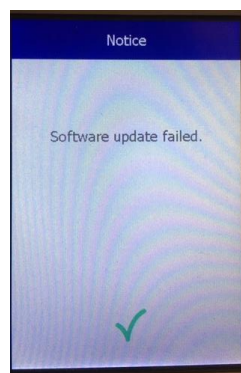
1. Copy the **three** files to a SD card. (Max. SD-card size is 8Gb)
2. Insert the SD card in the OJ-Air2Master
3. Wait approximately one minute until the new software is detected.
4. Press update button in HMI.
5. Wait 8 minutes until the update sequence has completed.
DON'T touch anything, just let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

The HMI will show these screens during the update

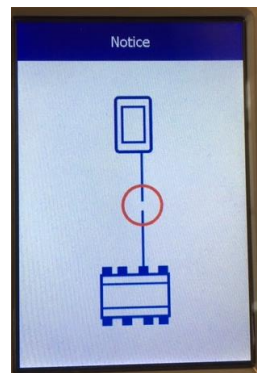
The first screen



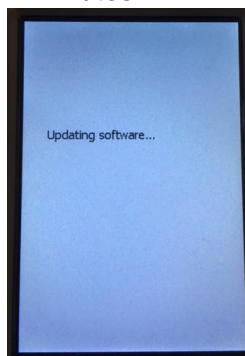
After 4 minutes.



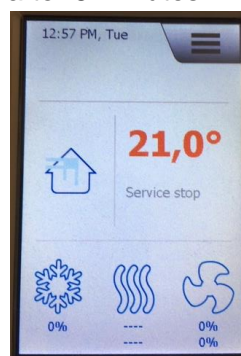
After 6 minutes



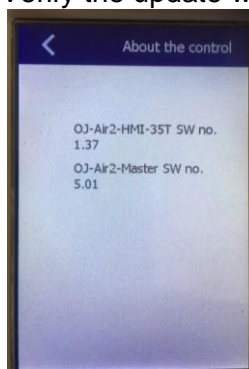
Flashing after 7 minutes



Update completed after 8 minutes



6. Verify the update was success full



OJ-Air2-HMI-35T SW 1.37 is OK
OJ-Air2-Master SW 5.01 is OK