OJ ELECTRONICS

KNOW HOW CREATES

OJ-Air2 Software version 6.30

OJ-Air2 software version 6.30 is released for up-grade with the SD-card. In the production at OJ Electronics will version 6.11 still be used until further notice.

OBS: Software version 6.30 doesn't support OJ Air cloud.

OJ Air cloud support will be included again in version 6.31 which will be released 1st. September 2021.

Changes

Compared to version 6.11 there were following improvements:

Functional description

No changes. Functional description OJ-Air2 01 is still valid.

Functionality

New features:

- 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 (0º to +60º) or Commercial (+5º to +40º)
- Individual stop of DX compressors according to outdoor temperature.

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.

Cloud

- **OBS: OJ Air cloud is not supported in version 6.30**

OJ-Air2-HMI-35T

- No changes

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 6.30 is released for up-grade with SD-Card in week 28 2021.

Compatibility
No changes are required when upgrading from version 6.11 to 6.30.

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, 14-07-2021, 08:50)
- "air2_v630_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.

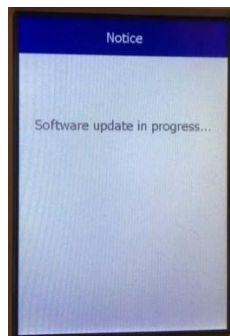**Software 6.xx update sequence if current sw is 5.01 or higher:**

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
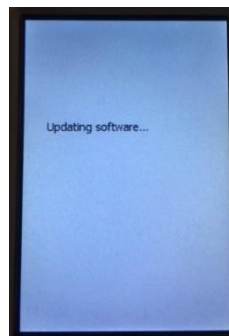5. Wait 8 minutes until the update sequence has completed
   DON'T touch anything, just let the process run.
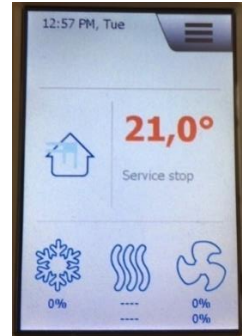
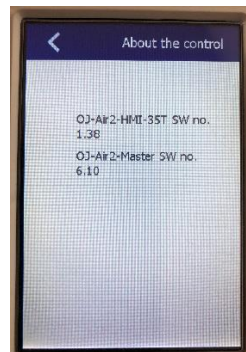   The HMI will show these screens during the update

The first screen	After 6½ minutes	After 8 minutes

6. Verify the update was successfull

OJ-Air2-HMI-35T SW 1.39 is OK
OJ-Air2-Master   SW 6.30 is OK