OJ-Air AHC-3000-X Software 1.30

Software 1.30 is now released for up-grade by the free PC tool or Cloud and will be introduced into the production at OJ Electronics on all new orders.

Changes

Compared to version 1.22 there were following improvements:

Functional description

No changes.

The "Functional description AHC-3000 01" available at OJ Electronics customer log-in is still valid.

Functionality

- **New Feature**: Satellite function is now available. This feature shall be used if multiple decentralized AHUs shall operate in a coordinated way in the same room.
- An available SW update is executed automatically in Service stop and even in case of active A alarms.
- DV drives rotation direction is no longer effected.
  Before it was forced to Counter Clockwise (UOE8656).
- Summer night cooling now starts even if the Outdoor air temperature first drops below room temperature sensor readings after the set summer night cooling start time. (UOE 8861)
- Reverse Rotor heat recovery transfer characteristic added to the 0-10V output signal in AHU type "Rotor". This linearizes the heat transfer characteristic and makes the temperature control loop easy to stabilize.

HMI-35T

- At power up the display is now kept off during 35 seconds in order to secure the display software always will be updated if needed.
- In Menu "Software" is "UPDATE" button now active if a new software version is available.
- In Menu "Configuration" – "Commissioning" are Analogue input signals now shown. (UOE8708)
  - AI1: CO2 voltage and CO2 level
  - AI2: Pa voltage and Pa level is shown if Supply Fan control loop is "Constant pressure". Else is "Room temperature" voltage shown.
  - AI3: Pa voltage and Pa level is shown if Extract Fan control loop is "Constant pressure". RH% voltage and RH% level is shown if Extract fan control loop is "Humidity"

- In menu "AHU Field Options" -> "AHU FIELD" is all detected Modbus components check marked gray after an Autoconfiguration. (UOE8706)
- DRHX check mark is now set correctly after an Autoconfiguration. (UOE8656)
- In menu "ROOM INFO" is filters only shown if configured.
- In menu TEMPERATURE -> ROTARY HEAT REC. is "Recovery DO6" status now "Open" or "Closed".
- In menu AHU FACTORY -> HEAT RECOVERY can DO6 now be selected also if AHU type is Counter or Cross.

BMS Modbus
- No changes.

Alarms
- Alarm 0312: Alarm text corrected to the PTH-6202-2 address 2 functions: Filter, extract air and Flow, supply air. (UOE8707)
- Alarm 2403: "VOC sensor (VTH-6202) no communication" is now possible in all fan control loops. (UOE8707)

OJ-Air2-HMI-20T
- No changes.

Cloud
- Cloud operation status now shows "Service stop" if Service Stop is active.
- A software update from cloud now updates all texts in the HMI (UOE8851).

Compatibility
No changes are required when upgrading from software version 1.22 to 1.30.

OBS: In systems using BasicBMS shall each controller be updated individually to software version 1.30. Only from this version and forward are software updates of Room no. 1 automatically distributed to all units.
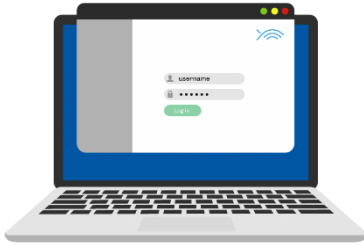
Software versions
- AHC-3000-X software 1.30
- AHC-3000-HMI-35T software 1.30
- OJ-Air2-HMI-20T Software 2.03

Affected articles
- AHC-3000-T
- AHC-3000-B
- AHC-3000-S
- AHC-3000-HMI-35T

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OJ ELECTRONICS

Coming into force
Version 1.30 was released in week 49 2020

Software Upgrade
The files are available at OJ Electronics Customer Login:
https://ojelectronics.com/support and can be upgraded using Cloud or
OJ Air PC-Tool vers. 1.2 or higher.

- AHC3000_MCUSW_130_00_0000.zip

OBS: In order to make a safe software update please follow this procedure:

Using OJ Air PC Tool and OJ-USB2RS485-CONV:
1. Connect OJ-USB2RS485-CONV to your labtop USB port and the RJ12 plug to AHC-3000 HMI port.
2. Power the AHC-3000 up.
3. Update the AHC-3000 controller by the OJ Air PC Tool.
4. Remove OJ-USB2RS485-CONV RJ12 plug from AHC-3000 HMI port and connect the AHC-3000-HMI-35T.
5. Power the AHC-3000 Off and wait 5 seconds.
6. Power the AHC-3000 up.
7. Wait until red flashing LED at the power plug starts flashing green and the HMI stops flashing White/black
8. The controller and HMI is now updated and the new version can be read out in the menu "Software".
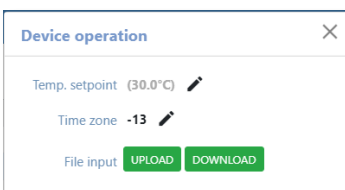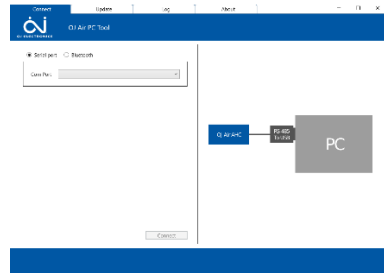
The sturdy USB to the RS485 converter is available from OJ Electronics. Please order Part no.: OJ-USB2RS485-CONV.

Using Cloud:
1. Open the specific controller tab on https://oj.hvac-cloud.com/
2. Select "Device operation" and UPLOAD.
3. Select file and UPLOAD.
4. Wait until the file transmission is completed OK.
5. The controller continues to operate using the old software until the first mains power cycle from Off to On.
6. During power up the AHC-3000 automatically starts using the available new software and updates the HMI as well.

Contact
If further technical information is required please contact our support dept.: support@oj.dk.

https://ojelectronics.com/support

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