

## OJ Air2 AHU control system



### OJ-Air2LON-A

- LON gateway
- Control and monitoring
- Alarm texts
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- Connection of LON sensors
- QuickPlug™ installation

The OJ Air2 system has been specially designed to control air handling units and forms a complete control system where all components are fully integrated and optimised.

The OJ-Air2LON-A is a LonWorks gateway, which is used to connect air handling units to a LON network and provides the possibility for central monitoring and control.

The OJ-Air2LON-A functions as a "Plug & Play" module for the OJ Air2 control system and reduces the time spent for installation with a focused function profile.

#### Optimised operation

By connecting the OJ-Air2LON-A to the ventilation system, the LON integrator is given free rein to provide optimum control of system operation in interaction with the building's other technical installations. The result is better comfort, energy savings and operating stability.

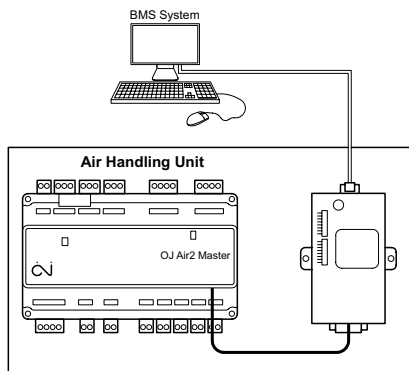
#### Plug & Play

The OJ-Air2LON-A is fully integrated into the OJ Air2 system's software, and the LON module is detected fully automatically when it is correctly connected. The solution is "Plug & Play" with no complicated settings.

#### Quick and easy integration

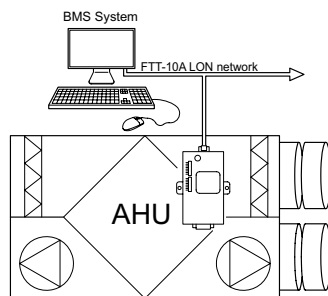
The function profile of the OJ Air2LON-A is substantially identical to the SpaceComfortContr (8085) profile. The LON integrator thus is able to quickly recognise the system functionality. The function profile contains all the SNVT variables necessary for controlling operation, displaying current operation data and managing alarms.





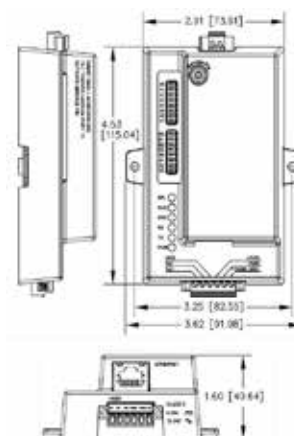
BR936E04a

Connection



BR936E05a

Application example



BR876001

Dimensioned drawing

### Direct connection

Other components on the LON network can be connected directly to the OJ Air2 gateway. This applies for example to room and outdoor temperature sensors, PIR sensors, wall-mounted control panels or smoke detectors. Depending on system complexity, substations can sometimes be avoided completely, thus reducing installation costs.

### Clear text in alarm messages

All OJ Air2 system alarms are available with associated clear, comprehensible messages via nvoAlarm2 and are naturally displayed in the same language as the one selected on the OJ-Air2Master. The LON integrator does not need to spend time on alarm tables and translations.

### INSTALLATION

#### Installation of gateway

The OJ-Air2LON-A should be installed on a 35 mm DIN rail in an enclosure that corresponds to the classification of the installation location. Typical placement is together with the OJ-Air2Master or in a control panel. Power for the OJ-Air2LON-A is supplied via the QuickPlug™ Modbus cable.

#### Cable connections

Cables are connected to screw terminals for wires of max. 1.5 mm<sup>2</sup>. The gateway is connected to the OJ Air2 system with the QuickPlug™ cable.

### PRODUCT PROGRAMME

TYPE	PRODUCT
OJ-Air2LON-A	LON gateway
OJ-Air2Master	AHU controller

### TECHNICAL DATA

Supply voltage	24 V DC ±15% via QuickPlug™
Power consumption	< 2.5 W
Electrical connection	max. 1.5 mm <sup>2</sup> , screw terminals
<b>LonWorks</b>	
Transceiver	FTT-10A
Speed	78 kbps
Connection	2-pole connector
Max. cable length	500 m
<b>QuickPlug™ Modbus</b>	
Connection	6-pole connector
QuickPlug™ cable	1 x 675 mm with RJ12 connector
Amb. operating temperature	-40/+75°C
Dimensions	115 x 92 x 41 mm
Enclosure	IP20
Weight	210 g

### CE marking

The OJ-Air2Master complies with the requirements of the following directives:

EMC Directive  
 EN-61000-6-2  
 EN-61000-6-3