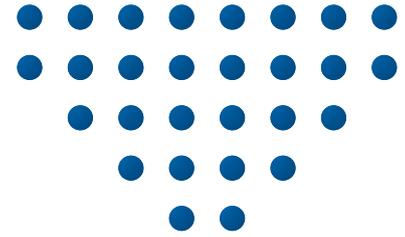OJ Air2

LON module

H V A C   C O N T R O L S   A N D   P O W E R

Plug & Play LON module

OJ Air2 LON is a LonWorks gateway for con-
necting ventilation units to a LON
network, thus allowing the ventilation system
to be controlled and monitored centrally.

OJ Air2 LON is used in conjunction
with the OJ Air2 control system. The gate-
way is a "Plug & Play" module,
providing time-saving installation.

OJ Air2 LON is equipped with the
"Embedded AHU Controller" function profile,
ensuring quick and reliable LON integration
with system
components.

OJ AIR2 LON FEATURES
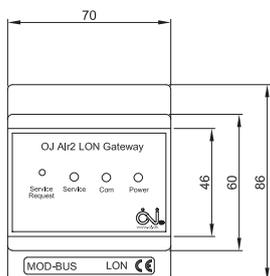
Optimised operation
By connecting OJ Air2 LON to the ventilation system, the
LON integrator is given free rein to provide optimum control
of system operation in interaction with the building's other
technical installations. Improved comfort, energy savings
and operational reliability are thus ensured.
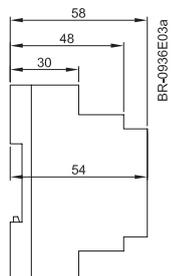
Plug & Play
OJ Air2 LON is fully integrated with the OJ Air2 system and
can be connected to the OJ Air2 Master via a simple bus
cable with telecom connector. The master automatically
detects the LON module, thus eliminating the need for
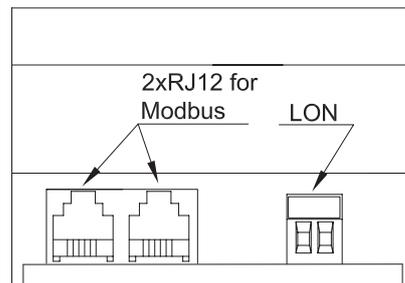ime-consuming settings adjustment.

Quick and easy integration
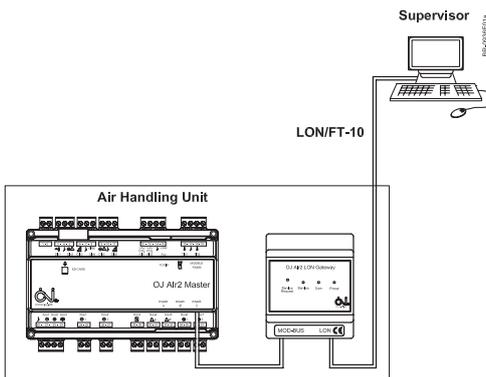The "Embedded AHU Controller" function profile in
OJ Air2 LON is very similar to the "Space Comfort
Controller" profile (8508). The LON integrator therefore
quickly recognises system functionality. The function profile
contains all the SNVT variables necessary for controlling
operation, displaying current operation data and managing
alarms. Integration has therefore never been easier.

OJ ELECTRONICS

taking comfort further

Dimensions

Application example

Connection

OJ AIR2 LON FEATURES

Direct connection
All LON network components can be connected directly to the OJ Air2 LON module. 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 alarm messages
All OJ Air2 system alarms are available as clear, comprehensible messages via nvoAlarm2, and are naturally displayed in the language selected on the OJ Air2 Master. The LON integrator need not waste time consulting alarm tables and translation lists to provide understandable alarm information on the main station. For users, this means efficient service and reliable operation.

LEDs
The front cover of OJ Air2 LON is equipped with LEDs which indicate whether the module is powered correctly, is properly configured and that there is communication on the LON network and Modbus connections respectively. This facilitates troubleshooting and saves time on installation and service.

INSTALLATION

OJ Air2 LON should be mounted on a standard 35 mm DIN rail and installed in a control panel or similar enclosure which complies with local requirements on electrical installations. The module should be connected to the OJ Air2 Master using a Modbus cable with RJ12 connector. The OJ Air2 Master provides a 24 V DC power supply via the Modbus cable. Once OJ Air2 LON has been connected correctly, the neuron ID can be read on either the OJ Air2 hand terminal or the OJ Air2 Master's built-in WEB pages. OJ Air2 LON must be configured on the LON network and the actual SNVT must be connected to the main station by means of a LON tool.

TECHNICAL DATA

Supply voltage	24 V DC via Modbus
Power consumption	< 40 mA
LonWorks	
Transceiver	FTT-10A
Speed	78 kbps
LON connection	Max. 1.5 mm2, screw connector terminals
Max. cable length	500 m
Modbus	
Signal	RS-485
Protocol	38.4 kBd, 1 start bit, 8 data bits, 1 stop bit
Connection	2 x RJ12 6/6 connectors
Max. cable length	100 m
Cable dimension	MPFK6S or similar
Ambient operating temperature 0°C/+50°C	
Dimensions	70 x 90 x 58 mm
Enclosure	IP20, ABS
Weight	130 g

PRODUCT PROGRAMME

TYPE	PRODUCT
OJ Air2 LON	OJ Air2 LON module

CE MARKING

OJ AIR2 LON complies with the requirements of the following standards:

EMC DIRECTIVE
EN 61000-6-2 / EN 61000-6-3