Product description

IOL – Control unit for I/O

IOL Version B03

Introduction IOL

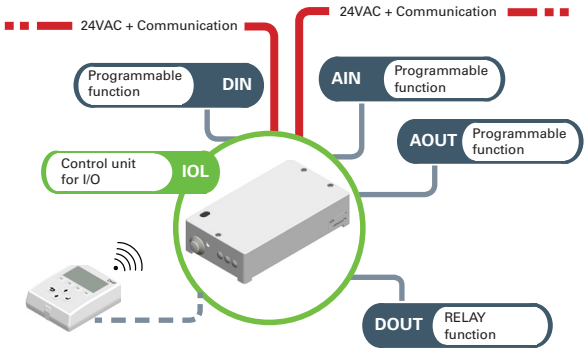
Control unit IOL is used to read and communicate analogue and digital in and out signals via the communication loop (CAN) and superior system.

Function

- Represents a bridge to the superior system, to I/O components that are connected to one of its terminal blocks. Access requires programming in LINDINSPECT.
- IOL has one pre-programmed function. This function allows an analog external flow signal to be retrieved via AIN and then sent to a specified flow zone.
- Connected via node ID to a communication loop (CAN) for access to and communication with other concurrent nodes or systems via LINDINTELL or Gateway NCE with Modbus TCP/RTU.
- Only has settings for Node ID and the possibility of including the node in groups. Actual values of in and out signal levels can be read.
- Output signal levels can be controlled from LINDINTELL/LINDINSPECT via communication loop (CAN).

Connections for input and output signals

Analogue and digital I/O components can be connected to the control unit.



Connection diagram IOL. The control unit is connected to a voltage feed and communication loop via Lindinvent's standard cable with two conductors for voltage feed and two twisted-pair conductors for communication. The same cable is used for connecting I/O components.

IOL – Control unit for I/O

User interface

- Server with LINDINTELL/LINDINSPECT via communication loop (CAN).
- Direct login on the control unit via hand unit for DHP (IR or wired communication)

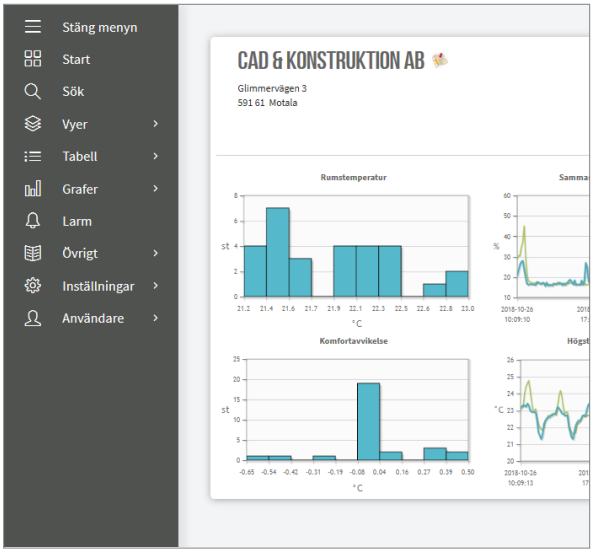
LINDINTELL/LINDINSPECT

LINDINTELL is a software package that is installed on a central server. The software coordinates all optimisation and monitoring functions in Lindinvent's systems for climate control and protective ventilation. LINDINTELL has, among other things, functions for optimisation, oversteering and free programming.

LINDINSPECT is a Web interface that has been developed to be used with LINDINTELL.

Control and alarm

I/O values can be logged via the overriding system and alarm flags can be set for deviations.



Detail from the home page of LINDINSPECT. A web interface where IOL as well as other connected nodes can be visualized and managed.

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Technical specifications IOL

General

Dimension
176 x 100 x 44 mm (LxWxH)

Material
Polystyrene encapsulation

Net weight
0.3 kg

Paint colour
RAL 9003

IP class
IP53 encapsulation

Temperature limits
Operation: 0°C to 40°C; <85% RF
Storage: -20°C to 50°C; <90% RF

Electrical system

Supply voltage
24 VAC

Output
1.5 VA

CE marking
Complies with EMC and the Low Voltage Directive

Connections

- 2 x 24 VAC + communication loop (CAN)
- 2 x general 0-10 VDC analogue in
- 2 x general 0-10 VDC analogue out
- 1 x general digital in; may be set using a jumper to either [PULL-UP +5V] or [0 - 5 VDC].
- 1 x DUT (relay); can be set via switch to either [24VAC] or [potential-free switch].
- 1 x IR port (For wireless communication with DHP)
- 1 x modular jack RJ45 - for connection of user panel DHP

Additional product documentation IOL

Table 1: Additional documentation for IOL can be obtained via links on the product's website under Products at www.lindinvent.se

Document	Available	Not available	Comments
Installation Instruction		●	See the external connection diagram. Marked screw holes in encapsulation.
Start-up instruction	●		Describes the complete menu structure with settings
Maintenance instruction		●	Regarded as maintenance-free
External connection diagram	●		
Environmental product declaration	●		Assessed by Byggvarubedömningen
User information		●	Not applicable
Modbus list	●		
AMA text		●	

Product documentation can be downloaded via www.lindinvent.se/produkter/

Contact
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Lindinvent – Smarter indoor climate. Greener buildings.

The company offers products and systems for controlling ventilation, lighting, solar shading and local utilization. Equipment and climate solutions are being developed for offices, schools, hospitals, laboratories and similar working environments. Lindinvent's systems work together to provide high indoor comfort and the lowest possible energy use.