Commissioning Instruction

Prerequisites

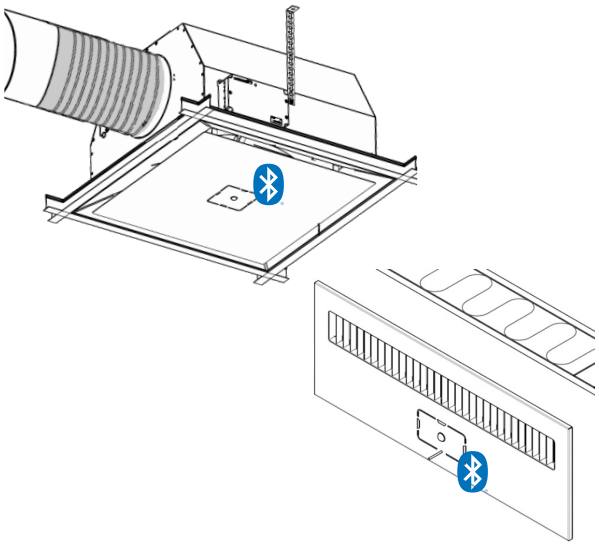
- The active diffuser ISQ is connected to 24 VAC + CAN via junction box CBD
- An approved LINDINSIDE account with authorization and a PIN for accessing the building.

Commissioning

Follow the instructions below. The diffuser is equipped for commissioning via the LINDINSIDE mobile app. After assigning the Node ID, remaining settings can be made centrally via LINDINTELL/LINDINSPECT®.

Control parameters

The entire set of parameters is accessed via the screen selection <*Symbol*> after connecting to the diffuser via LINDINSIDE. The complete list of symbols is attached. Default values for ISQ-V may deviate from the corresponding values for other ISQs.



Smartphone with the app LINDINSIDE for communication with controllers from Lindinvent equipped with Bluetooth®.

Read more about LINDINSIDE

Download on the App Store

GET IT ON Google Play

WORKFLOW

(See page 2 for screenshots from LINDINSIDE)

When the correct building is selected in the app:

1. Swipe down to scan nearby devices
Identify a specific controller from the list by pressing the bell symbol. A beep sound with a blue flashing light is received from the responding controller.

2. Set (change) a Node ID
Select the field <*Node ID*>. Enter a unique Node ID. It must not be 0. Follow the recommended Node ID assignment from Lindinvent. The ID is set to a digit between 1–246. It´s recommended to do a new scan after update to verify that the Node ID has been updated correctly.
Note: When assigning Node-ID to a larger number of devices, support is available via the function *"Set node-IDs"* found under the gear symbol for settings in LINDINSIDE.

3. Make connection with a controller
Tap the field with the product name to connect. Scan and reconnect if problem occurs.

4. Set parameters under Quick Setup
- Flödeszon [0] (Flow zone)
  Default set to [0] = not included in a flow zone
- Börvärde temp [22 °C] (Room temperature SP)
- Minflöde [5 l/s] (Minimum flow SP)
- Maxflöde [50 l/s] (Maximum flow SP)
- Närvaroflöde [10 l/s] (Presence/projected flow SP)
- Testläge [0 = Inactive] (Test mode)
- Testvärde (Test value)

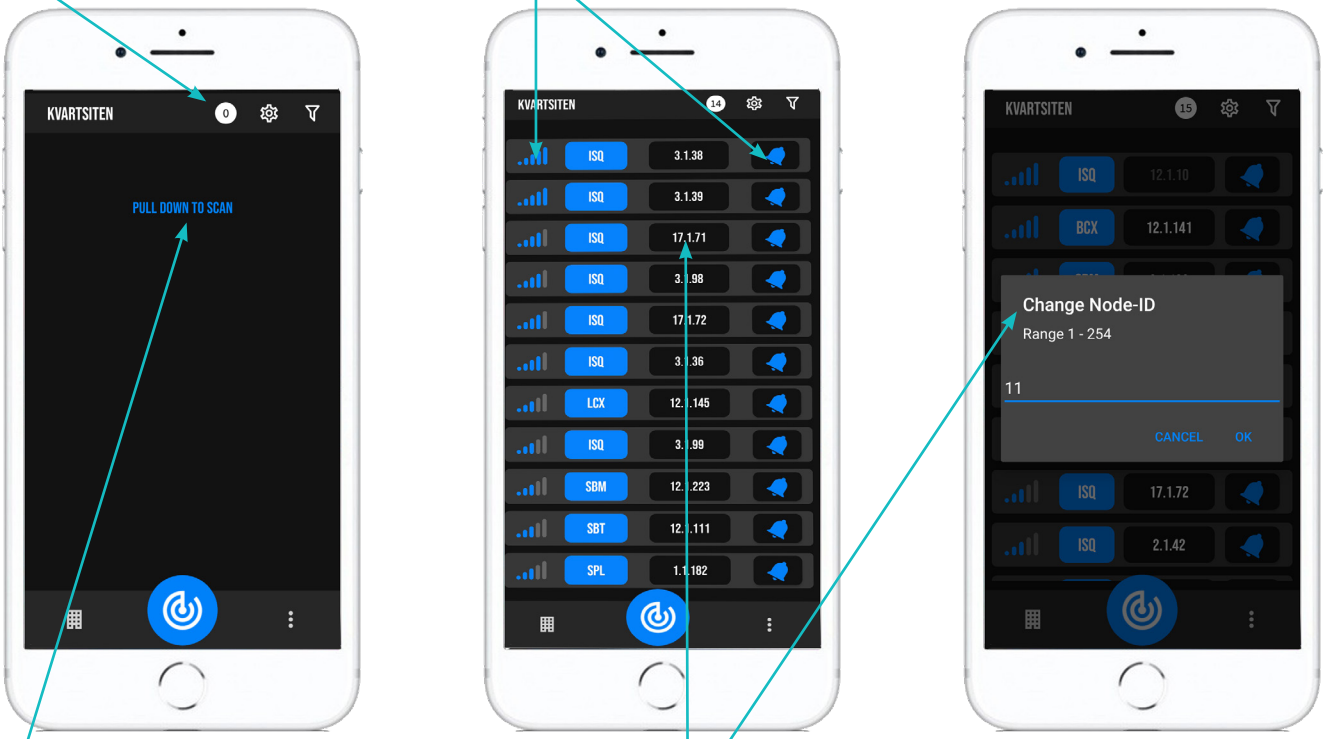
5. Verify deployed functionality
After a few minutes, the status values can be read.

Set Node-ID with LINDINSIDE

LINDINSIDE

Number of units found.

The signal strength indicator and the bell icon symbol field. Pressing a bell icon will trigger a nearby controller to respond with a buzzer sound and a flashing led.



Pull down to scan units nearby.

Pressing the field with Node-ID opens a window where a Node-ID can be set.

Available from LINDINSIDE

Status Value Presentation

A limited selection of control parameter values is presented on the top of the controller main screen in LINDINSIDE.

Available Screen Choices for the Active Difusers:

- Quick setup
- Symbols
- History
- System
- Peripherals

About Screen Choice Symbols

A selection of control parameters have been grouped for easy access.

List of Parameters

Complete list of all parameters accessable from LINDINTELL.
FW: ISQ 1.2.0. Created: 2021-05-17

Function group/Function	Parameter	Typ	Default value	Description
Communication				
Communication	Product type	R	ISQ (7000)	Product type of the unit
	Node-ID	R	1	Unique Node-ID number of the unit on the local CAN-bus
	Gate Port	R	[Value]	Unique identifier of the CAN-bus which the unit is connected to
Operation mode				
Operation mode	Operation mode	R	Normal [0]	Operation mode of the unit
Test mode	Test mode	R/W	Inactive[0]	Test mode of the unit
	Test value	R/W	0	For use of Test mode
Indication mode	Indication mode	R/W	Inactive [0]	Various programs of indication with RGB LED and sound
Temperature				
Temperature	Room temperature	R	[Value]	Room temperature value used by the controller (average value from ”actual value zone” if activated, otherwise the same as local)
	Local room temperature	R	[Value]	The unit’s room temperature
P-band 1 ”Heating”	P-band 1 T1	R/W	0	
	P-band 1 E1	R/W	0	
	P-band 1 T2	R/W	-1	
	P-band 1 E2	R/W	10	
	P-band 1 interlock	R/W	0	
	P-band 1 result	R	[Value]	
P-band 2 ”Cooling”	P-band 2 T1	R/W	1	
	P-band 2 E1	R/W	0	
	P-band 2 T2	R/W	2	
	P-band 2 E2	R/W	10	
	P-band 2 interlock	R/W	0	
	P-band 2 result	R	[Value]	
Forced displacement	Forced displacement	R/W	0	Displacement of all P-bands for temperature
Other settings	Local room temp 2	R	[Value]	Actually measured value for the temperature sensor without compensation
	Local room temp 3	R	[Value]	Internal temperature sensor in CO^2-module
	Room temperature SP	R/W	22	
	Room temp offset SP	R/W	0	
	Room temperature calculated SP	R	[Value]	
	Correction room temp	R/W	0	
	R-intervall time temp	R/W	120	
	Hysteresis temperature	R/W	0	
	Mean factor temp	R/W	10	
	Duct temperature	R	[Value]	
	Correction duct temp	R/W	0	
	Surface temperature	R	[Value]	
	Correction surface temp	R/W	0	
	R-factor cooling effect	R/W	0	
	R-factor P-band	R/W	1	
Flow				
	Local supply flow	R	[Value]	The unit’s measured supply flow
	Local supply flow calculated SP	R	[Value]	Calculated setpoint for the supply flow - affected by P-band / presence etc
	Opening	R	[Value]	
P-band flow ”Air cooling”	P-band flow function	R/W	Aktiv [1]	
	Minimum flow T1	R/W	0	

Function group/Function	Parameter	Typ	Default value	Description
	Minimum flow SP	R/W	5	
	Maximum flow T2	R/W	1	
	Maximum flow SP	R/W	50	
	P-band flow result	R	[Value]	
P-band flow 2 ”Air heating”	P-band flow 2 function	R/W	Inactive [0]	
	Minimum flow 2 T1	R/W	0	
	Minimum flow 2 SP	R/W	40	
	Maximum flow 2 T2	R/W	-1	
	Maximum flow 2 SP	R/W	50	
	P-band flow 2 result	R	0	
Other settings	Hysteresis relative	R/W	8	
	Hysteresis flow	R/W	2	
	Mean factor flow	R/W	30	
	Mean factor flow idle	R/W	3	
	G1 K-factor	R/W	26	
	Flow GF1	R	0	
	Pressure value LDE	R	[Value]	
	Sensor type LDE	R	25	
	Correction LDE	R/W	0	
	Zero calibration LDE	R/W	0	
Calculated pressure	Calculated pressure	R	[Value]	

Presence

	Presence function	R/W	Active [1]	
	Presence	R	[Value]	
	Local presence	R	[Value]	
	Time to presence	R/W	0	
	Time to absence	R/W	5	
	Minutes with absence	R	30	
Presence flow	Presence flow SP	R/W	10	
	Time to absence flow	R/W	1	
Economy mode	Time to economy	R/W	0	
	Time to comfort	R/W	6	
	Displacement cooling	R/W	1	
	Displacement heating	R/W	1	

Carbon dioxide

	Carbon dioxide function	R/W	Inactive [0]	
	Carbon dioxide level	R	[Value]	
	Carbon dioxide level SP	R/W	800	
	P-band CO2	R/W	200	
	P-band CO2 max flow SP	R/W	0	
	Hysteresis CO2	R/W	0	
	P-band CO2 result	R	5	
	Mean factor CO2	R/W	10	
	R-factor CO2	R/W	1	
	R-interval time CO2	R/W	120	

Relative humidity

	Relative humidity funct	R/W	Inactive [0]	
	Relative humidity	R	[Value]	
	Relative humidity SP	R/W	60	
	P-band relative humidity	R/W	20	
	P-band RH max flow SP	R/W	0	
	Hysteresis RH	R/W	0	
	P-band RH result	R/W	[Value]	
	Mean factor RH	R/W	10	
	R-factor RH	R/W	1	
	R-interval time RH	R/W	120	
	Dew point	R	[Value]	
	Absolute humidity	R	[Value]	

Function group/Function	Parameter	Typ	Default value	Description
Lighting				
	Lighting relay active	R	Yes [1]	
	Ligthing function	R/W	Lighting on [0]	
	Time to lighting off	R/W	10	
	Interpret as switch	R/W	No [0]	
	Ligthing ignitions counter	R	0	
	Lighting counter 1	R	0	
	Lighting counter 2	R	0	
Brightness	Brightness	R	[Value]	
Input/Output-signals				
AIN1	AIN1 voltage	R	0	
	AIN1 Function	R/W	Inactive [0]	
	AIN1 Param 1	R/W	0	
	AIN1 Param 2	R/W	0	
	AIN Filter	R/W	255	
AOUT1	AOUT1 voltage	R	0	
	AOUT1 Function	R/W	Inactive [0]	
	AOUT1 Param 1	R/W	0	
	AOUT1 Param 2	R/W	0	
DIN1	DIN1 value	R	0	
	DIN1 Function	R/W	Inactive [0]	
	DIN1 Param 1	R/W	0	
Triac	Triac function	R/W	Inactive [0]	
	PWM-period	R/W	10	
	NC-actuator	R/W	Yes [1]	
	NC-valve	R/W	No [0]	
	DOUT1 value	R	[Value]	
Zones				
Lighting zone	Lighting zone	R/W	0	
Flow zone	Flow zone	R/W	0	
Magnetic contact zone	Magnetic contact zone	R/W	0	
	Time to normal mode	R/W	0	
Presence zone A-C	Presence in Zone A	R	[Value]	
	Presence in Zone B	R	[Value]	
	Presence in Zone C	R	[Value]	
	Presence zone A	R/W	0	
	Presence zone B	R/W	0	
	Presence zone C	R/W	0	
Precense zone	Precense zone	R/W	0	
Peripheral zone	Peripheral zone	R/W	0	
	Peripheral source	R/W	0	
Radiator zone	Radiator zone	R/W	0	
Isvalue zone	Isvalue zone	R/W	0	
Active/Passive fire	Fire signal	R/W	Inactive [0]	
	Fire zone	R/W	0	
Passive fire	Action zone fire	R/W	Inactive [0]	
	Action other fire	R/W	Inactive [0]	
Groups				
Groups	Group 16-1	R/W	[Value]	For grouping units in LINDINTELL functions
	Group 32-17	R/W	[Value]	
Product sign	Product sign 1	R/W	0	For grouping units in LINDINTELL functions
	Product sign 2	R/W	0	
	Product sign 3	R/W	0	
	Product sign 4	R/W	0	
	Product sign 5	R/W	0	
	Product sign 6	R/W	0	
	Product sign 7	R/W	0	

Function group/Function	Parameter	Typ	Default value	Description
	Product sign 8	R/W	0	
	Product sign 9	R/W	0	
	Product sign 10	R/W	0	
Motor				
	Motor speed instant value	R/W	[Value]	
	Motor speed	R/W	12	
	Motor power instant value	R	[Value]	
	Maximum motor power close	R/W	35	
	Maximum motor power open	R/W	35	
	Motor power reset	T/W	0	
	Encoder pulses AD	R	[Value]	
	Minimum opening AD	R/W	100	
	Maximum opening AD	R/W	2200	
	Number of motor resets	R	0	
	Movements per hour	R	0	
	Total motor time	R	0	
	Mechanical stop	R/W	No [0]	
System				
	Building-ID H	R	0	
	Building-ID L	R	51966	
	Total system time	R	0	
	Supply voltage	R	[Value]	
	CPU temperatue	R	[Value]	
	Reset	R/W	0	
	Number of resets	R	0	
	Number of starts	R	0	
	CAN Speed	R/W	Auto [3]	
	Firmware	R	[Value]	
	Firmware Build	R	[Value]	
	Bootloader	R	7	
	Bootloader config	R	0	
	BLE Firmware	R	[Value]	
	BLE Flags	R/W	1	
	Number of leaves	R	[Value]	
	Number of modbus leaves	R	[Value]	
	Memory status	R	0	