Doc. No. 392615011 · Rev. 01 · 10/2026

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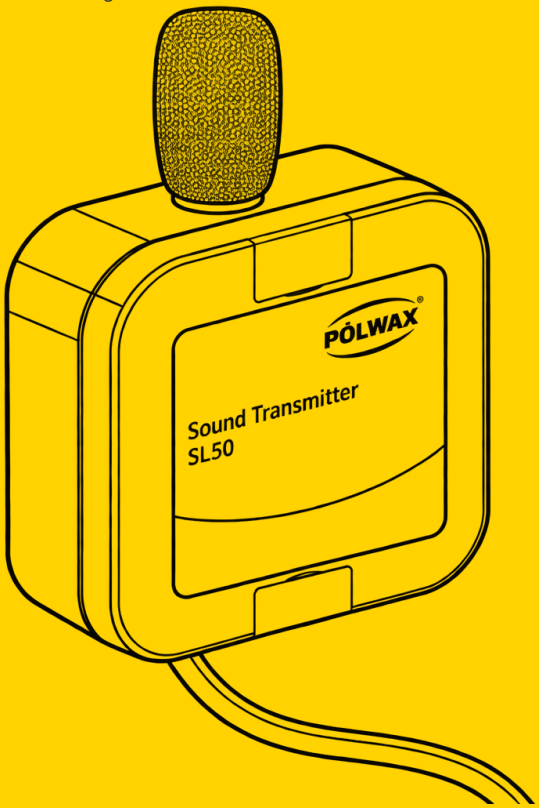
USER MANUAL

Sound Transmitter

Atmos SL50

Part code **3915 0101** (SL50-01-101)

Installation · Connection · Commissioning · Maintenance



⚠ Read this manual carefully before installation and keep it for future reference.

Polwax International Co.

www.global-polwax.com

1 ABOUT THIS MANUAL

This manual describes the installation, electrical connection, commissioning, operation and maintenance of the Polwax **Atmos SL50** sound level transmitter. It is part of the product and must be available to all persons working with the device.

+ Document information

Document	**User manual**
Document number	**392615011**
Revision	**Rev. 01 · 10/2026**
Product	**Atmos SL50 Sound Transmitter**
Valid for	**All SL50 order codes (SL50-XX-YYY)**
Language	**English (original)**

+ Signal words and symbols

DANGER
Immediate danger – will lead to death or serious injury if not avoided.

WARNING
Possible danger – may lead to death or serious injury if not avoided.

CAUTION
Possible danger – may lead to minor injury or damage to the device.

NOTE
Useful information and tips for correct use of the device.

+ Text conventions

- **Bold** – terms on the device, buttons and important values
- 1, 2, 3 – work steps in the given order
- → page – cross reference within this manual

CONTENTS

1	**About this manual**	2
2	**Safety**	4
3	**Product description**	6
	Product overview	7
	Scope of delivery & order codes	8
	Type label	11
4	**Technical data**	9
5	**Transport & storage**	12
6	**Installation**	13
	Mounting	14
	Opening the housing	15
7	**Electrical connection**	16
	RS485 version	17
	Analogue versions	18
8	**RS485 & Modbus RTU**	19
	Communication settings	20
	Analogue output scaling	21
9	**Commissioning**	22
10	**TransView software**	23
	Dashboard	24
	Adding a device	25
	Trends	26
	Alarms	27
	Reports	28
	Mobile access & users	29
11	**Operation**	30
12	**Maintenance**	31
	Calibration & repair	32
13	**Troubleshooting**	33
14	**Service & disposal**	35
	Important notice	35

2 SAFETY

+ Intended use

The Atmos SL50 measures the sound pressure level (dB) in industrial, urban and building environments and provides the value as RS485 Modbus RTU, 4 – 20 mA or 0 – 10 V signal for monitoring and control systems.

Use the device only within the limits given in the technical data (→ page 9) and only as described in this manual.

+ Foreseeable misuse

- Use as a safety component or for personal protection functions
- Use in potentially explosive atmospheres
- Operation outside the specified supply voltage or environmental conditions
- Operation with damaged housing, probe, cable or gland
- Opening the electronics or modifying the device

WARNING
The SL50 is not a safety device. Do not use its signal as the only protection where a wrong reading could endanger persons.

+ Qualified personnel

Installation, electrical connection and commissioning must be carried out only by qualified electricians or trained technicians who know the applicable regulations and have read this manual.

+ General safety instructions

- Switch off the power supply before connecting or disconnecting the device.
- Use only a SELV / PELV DC supply of 12 – 24 V DC.
- Observe the polarity of V+ and GND.
- Close the front cover completely after wiring.
- Work at height only with suitable access equipment.
- Do not touch the microphone membrane.

CAUTION
Damage by wrong supply voltage: a supply above 24 V DC or reversed polarity can damage the electronics.

CAUTION
Water ingress: an open cover or loose cable gland reduces protection IP65. Close the cover and tighten the gland with a cable of the correct diameter.

+ Responsibility of the operator

The operator is responsible for the correct installation and use, for regular inspection and for keeping this manual available. Local safety, electrical and environmental regulations always apply.

+ Liability

Polwax accepts no liability for damage caused by improper use, unauthorised modifications or failure to follow this manual.

3 PRODUCT DESCRIPTION

The Atmos SL50 is a sound level transmitter in a compact IP65 ABS housing. A precision electret condenser microphone with foam windscreen measures the sound pressure level from 30 to 120 dB over 20 Hz – 20 kHz.

+ Main features

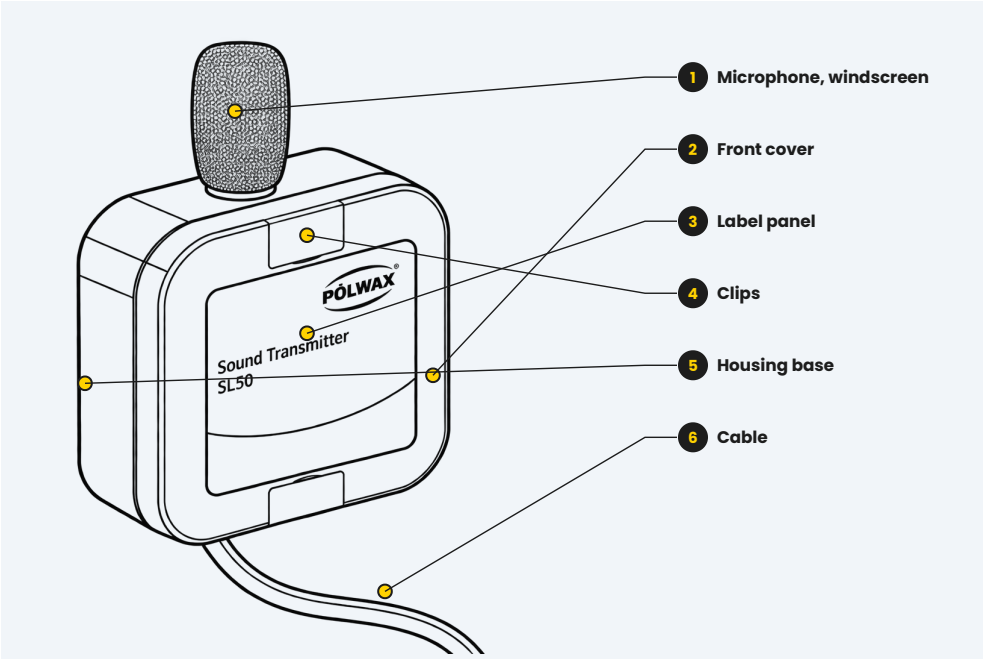
- Measuring range 30 – 120 dB, 20 Hz – 20 kHz
- Accuracy ±1.5 dB, resolution 0.1 dB
- Outputs RS485 Modbus RTU, 4 – 20 mA or 0 – 10 V
- Supply 12 – 24 V DC
- IP65 ABS housing 100 × 100 × 40 mm
- Foam windscreen against wind and dust
- Configuration via PC software or Modbus registers

+ Typical applications

- Industrial noise and worker safety
- Smart city and traffic
- Construction sites
- Hospitals and schools
- Offices and open spaces
- Entertainment venues

NOTE
The output version (RS485, 4 – 20 mA or 0 – 10 V) is fixed by the order code. Check the type label before connection (→ page 11).

Main parts of the SL50. The numbers are used throughout this manual.



Pos.	Part	Function
1	Microphone, windscreen	Electret microphone protected by foam
2	Front cover	Closes the housing
3	Label panel	Model and Polwax logo
4	Clips	Hold the front cover on the base
5	Housing base	Mounting, terminals
6	Cable	Supply and signal

+ Scope of delivery

- Atmos SL50 sound level transmitter
- User manual / quick guide
- Test report or calibration certificate (if ordered)

Check the delivery for completeness and damage immediately after receipt (→ page 12).

+ Order codes

SL50 – XX – YYY

XX output: 00 = 0 – 10 V · 01 = RS485 · 02 = 4 – 20 mA
YYY range: 101 = 30 – 120 dB

Part code	Order code	Output	Range
3915 0001	SL50-00-101	0 – 10 V	30 – 120 dB
3915 0101	SL50-01-101	RS485 Modbus RTU	30 – 120 dB
3915 0201	SL50-02-101	4 – 20 mA	30 – 120 dB

+ Accessories & services

Part code	Accessory / service	Group
3990 0101	Wall mounting bracket	Mounting
3990 0102	Pole / mast mounting bracket	Mounting
3990 0601	Replacement foam windscreen	Spare parts
3990 0201	24 V DC power supply, DIN rail	Power & cable
3990 0202	Shielded RS485 cable, per metre	Power & cable
3990 0301	Modbus gateway RS485 → Ethernet / 4G	Communication
3990 0401	Polwax monitoring software licence	Software
3990 0501	Calibration certificate	Services
3990 0502	Recalibration service	Services

4 TECHNICAL DATA

Parameter	Value
Measurement	
Measured quantity	Sound level
Sensor	Precision electret condenser microphone
Measuring range	30 – 120 dB (101)
Custom ranges	On request
Accuracy	±1.5 dB
Resolution	0.1 dB
Response	≤ 30 s
Frequency range	20 Hz – 20 kHz
Outputs	
Output options	RS485 Modbus RTU (01) · 4 – 20 mA (02) · 0 – 10 V (00)
Digital interface	RS485, 2-wire, half duplex, Modbus RTU slave
Power supply	
Supply voltage	12 – 24 V DC (SELV / PELV)

Parameter	Value
Environment	
Operating temperature	-10 … +60 °C
Storage temperature	-20 … +80 °C
Humidity	0 – 95 % RH, non-condensing
Protection rating	IP65
Mechanical	
Housing	Industrial-grade ABS, 100 × 100 × 40 mm
Mounting	Wall mount · pole mount with standard brackets
Cable entry	Cable gland / terminals inside
Dimensions	100 × 100 × 40 mm (housing)

NOTE
Accuracy refers to the ordered measuring range under reference conditions. Specifications are subject to change without notice.

+ Reference values – sound level

Situation	Typical value
Quiet library / bedroom at night	30 – 40 dB
Quiet office	45 – 55 dB
Busy road traffic	70 – 85 dB
Factory floor	80 – 95 dB
Heavy machinery / compressor	95 – 110 dB

Typical values. Workplace limits (e.g. EU Directive 2003/10/EC: action values 80 / 85 dB(A), limit 87 dB(A)) and local noise rules apply.

The type label identifies the device. Always state the order code and serial number when contacting Polwax service.

PÖLWAX

Atmos SL50

Order code **SL50-01-101**	Part code **3915 0101**	Serial no. **xxxxxxxx**
Output **RS485 Modbus RTU**	Range **30 – 120 dB**	Supply **12 – 24 V DC**
Protection **IP65**	Temperature **-10 … +60 °C**	Made by **Polwax International Co.**

Example label – layout for illustration.

+ Information on the label

Field	Meaning
Order code	Model, output code and range code
Part code	8-digit Polwax part number
Serial no.	Unique number of the device – needed for calibration certificate and service
Output	Installed output version – decides the wiring (→ page 16)
Supply	Permitted supply voltage

NOTE
Note the serial number and the installation position of each transmitter in your plant documentation.

5 TRANSPORT & STORAGE

+ Transport

- Transport the device in its original packaging.
- Protect the microphone from impacts and dirt.
- Do not carry the device by the cable.

+ Unpacking and inspection

1. Open the packaging carefully; do not use sharp knives near the device.
2. Check the scope of delivery against the delivery note.
3. Inspect housing, cover, microphone and cable gland for damage.
4. Compare the type label with your order (order code, range, output).
5. Report transport damage immediately to the carrier and to Polwax.

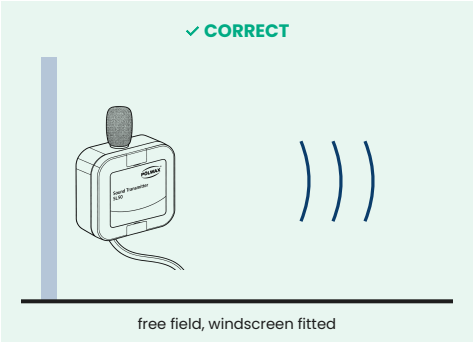
> ⚠ **CAUTION**
> Do not install a damaged device. A cracked housing or damaged gland allows water ingress.

+ Storage

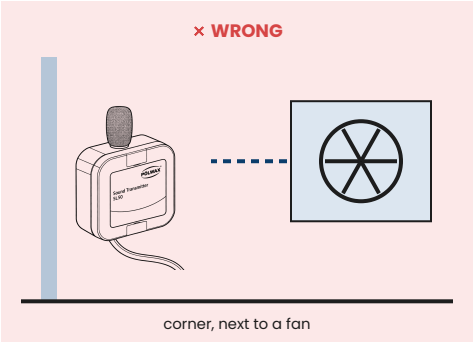
Storage temperature	**-20 … +80 °C**
Humidity	**0 – 95 % RH, non-condensing**
Place	**dry, dust-free, in original packaging**
Protection	**no direct sunlight, no corrosive gases**

6 INSTALLATION

The mounting position determines how representative the measurement is. Choose a place that represents the conditions to be measured.



free field, windscreen fitted



corner, next to a fan

+ Site selection rules

Rule	Details
Free field	Mount the microphone free, not in corners or niches.
Distance to walls	Keep distance from reflecting walls and ceilings where possible.
Height	Typically 1.5 – 4 m, at the height of the noise to be assessed.
Away from local sources	Not directly next to fans, pumps or the device ventilation.
Weather	Outdoors: windscreen fitted, cable downwards.
Representative	One transmitter per noise zone.

+ Tools and material

- Screwdriver for cover and fixing screws
- Spanner for the cable gland
- Drill and wall plugs
- 4 screws suitable for the wall
- Mounting bracket (option, see accessories)
- Cable ties / strain relief

+ Mounting the transmitter

1. Switch off the power supply of the installation.
2. Open the front cover (2) by releasing the clips.
3. Hold the housing base on the wall and mark the 4 fixing holes.
4. Drill the holes, insert wall plugs and fix the base with 4 screws.
5. Lead the cable through the cable gland (→ page 15).
6. Connect the wires, close the cover and tighten the gland.



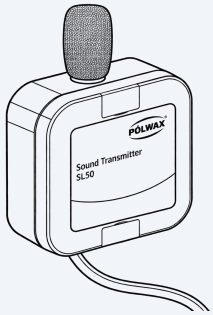
wall

WARNING
Falling parts: secure tools and the device when working at height. Keep the area below clear.

NOTE
For outdoor or wet areas, mount the device so that the cable enters from below and protection IP65 is maintained.

+ Opening the housing and cable entry

The terminals are inside the housing base. The front cover is held by clips at the top and bottom.



1. Release the top and bottom clips with a flat screwdriver.
2. Lift the front cover off; do not pull on internal wires.
3. Undo the cable gland nut and push the cable through.
4. Strip the wires, fit ferrules and connect them to the terminals.
5. Tighten the gland so that the seal grips the cable.

+ Cable requirements

Item	Recommendation
Cable type	Shielded cable, see → page 16
Cable diameter	Suitable for the cable gland seal
Wire ends	Ferrules, insulated
Strain relief	Fix the cable close to the device

CAUTION
Before closing, check that the cover seal is clean and correctly seated – otherwise IP65 is not reached.

7 ELECTRICAL CONNECTION

> **WARNING**
> Electrical work only by qualified electricians. Switch off the power supply before connecting the device.

+ Before connecting

- Check the output version on the type label (→ page 11).
- Check that the supply is 12 – 24 V DC, SELV / PELV.
- Identify the terminals with the marking in the housing / label supplied with the device.

+ Recommended cables

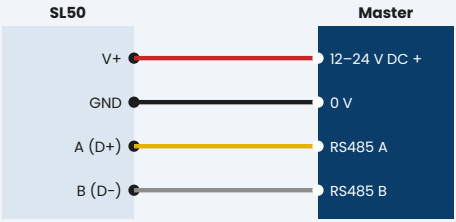
Output	Cable	Conductors
RS485 (01)	Shielded twisted pair, 2 × 2	A / B · V+ / GND
4 – 20 mA (02)	Shielded instrumentation cable	V+, GND, I out
0 – 10 V (00)	Shielded instrumentation cable	V+, GND, U out

+ Wiring rules

- Run signal cables separately from mains and motor cables.
- Connect the shield on one side only (control cabinet side).
- Use one common reference (GND) for supply and input.
- Protect the supply line with a fuse according to site rules.

> **CAUTION**
> Wrong wiring can destroy the output stage. Check the terminal identification before switching on.

+ RS485 Modbus RTU version (output code 01)



Signal	Function	Terminal
V+	Supply + 12 – 24 V DC	see marking
GND	Supply 0 V / reference	see marking
A (D+)	RS485 data line A	see marking
B (D-)	RS485 data line B	see marking
Shield	Cable screen, one side to earth	–

NOTE
If A and B are swapped, the master receives no answer. Swap A and B and test again – this does not damage the device.

+ Connection steps

1. Connect V+ and GND to the 12 – 24 V DC supply.
2. Connect A and B to the RS485 master (PLC, gateway, Polwax controller).
3. Terminate the bus at both ends with 120 Ω (→ page 19).

+ 4 – 20 mA version (output code 02)



Signal	Function	Terminal
V+	Supply + 12 – 24 V DC	see marking
GND	Supply 0 V / reference	see marking
I out	Current output 4 – 20 mA	see marking

Below 4 mA indicates a wiring fault (live zero).

+ 0 – 10 V version (output code 00)

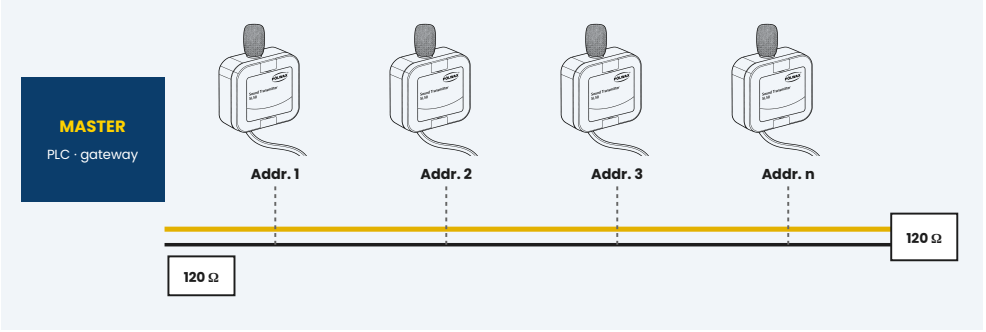


Signal	Function	Terminal
V+	Supply + 12 – 24 V DC	see marking
GND	Supply 0 V / AI -	see marking
U out	Voltage output 0 – 10 V	see marking

Keep 0 – 10 V cables short and away from interference sources.

8 RS485 & MODBUS RTU

Transmitters with output code 01 are Modbus RTU slaves. Several SL50 can be connected to one two-wire bus; each needs its own address.



+ Network rules

Item	Rule
Topology	Daisy chain (line) – no star wiring, short stubs only
Termination	120 Ω at both physical ends of the bus
Cable	Shielded twisted pair, away from power cables
Length	Up to approx. 1,200 m at low baud rates
Devices	Up to 32 unit loads per segment; repeaters for more
Addresses	Unique per bus – set and label before installation

NOTE
All devices on one bus must use the same baud rate and parity.

+ Communication settings

Parameter	Value
Protocol	Modbus RTU, slave
Interface	RS485, 2-wire, half duplex
Slave address	01 (factory default)
Baud rate	2400 / 4800 / 9600 bit/s – factory default 4800
Data format	8 data bits, no parity, 1 stop bit (8N1)
Function code	03 (Read Holding Registers)
Error checking	CRC-16

+ Register map

The measured value is available in a holding register (function code 03).

Register	Content	Unit	Access
0000H (40001)	Sound level × 10	dB × 10	read

Example: 0x02C9 = 713 → 71.3 dB

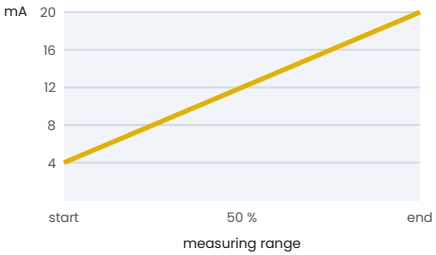
+ Reading the value – procedure

1. Set baud rate and parity of the master to the device settings.
2. Send a read request to the slave address of the SL50.
3. Read the measured value register (dB).
4. Check the answer for timeout or CRC errors (→ page 33).

> **CAUTION**
> Change the slave address of one device at a time and label it immediately – duplicate addresses block the bus.

The analogue versions provide a signal linear to the measured value over the ordered range: 30 – 120 dB (101).

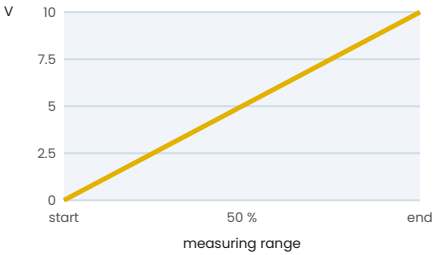
+ 4 – 20 mA (02)



X = 30 + (I – 4) ÷ 16 × 90
e.g. 12 mA, range 101 → 75.0 dB

Signal	Range 101
4 mA	30.0 dB
8 mA	52.5 dB
12 mA	75.0 dB
16 mA	97.5 dB
20 mA	120.0 dB

+ 0 – 10 V (00)



X = 30 + U ÷ 10 × 90
e.g. 2 V, range 101 → 48.0 dB

Signal	Range 101
0 V	30.0 dB
2.5 V	52.5 dB
5 V	75.0 dB
7.5 V	97.5 dB
10 V	120.0 dB

NOTE
Set the same range in the PLC / BMS as on the type label. Values outside the range are limited to the minimum / maximum signal.

9 COMMISSIONING

Commission the transmitter after mechanical installation and wiring are complete.

+ Checklist before switching on

Check	✓
Housing firmly fixed	☐
Front cover closed, cable gland tight	☐
Microphone free and clean	☐
Wiring checked against the terminal marking	☐
Supply 12 – 24 V DC, polarity correct	☐
RS485: termination and unique address	☐

+ Switching on

1. Switch on the power supply.
2. Wait for initialisation.
3. Read the value in the master, PLC or TransView.
4. Carry out the plausibility check below.
5. Record date, serial number, address and first reading.

+ Plausibility check

- In a quiet room the value must be low (e.g. 35 – 50 dB).
- Speak or clap near the microphone – the value must rise clearly.
- Compare with a reference sound level meter at the same position.

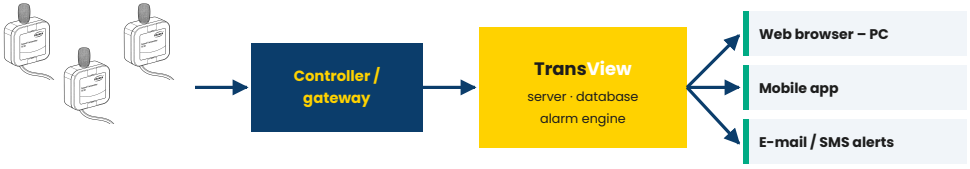
10 TRANSVIEW MONITORING SOFTWARE

Polwax TransView is the monitoring software for Polwax transmitters. It collects the values of all SL50 and other Polwax devices, shows them live, stores the history and turns limit violations into alarms and reports.

+ Functions at a glance

Live dashboard all devices and states on one screen	**Trends** history, zoom, comparison, export	**Alarms** limits, delays, e-mail / SMS / app
Reports PDF / Excel, daily to monthly, scheduled	**Users** roles, rights, audit trail	**Mobile** values and alarms on the phone

+ System architecture

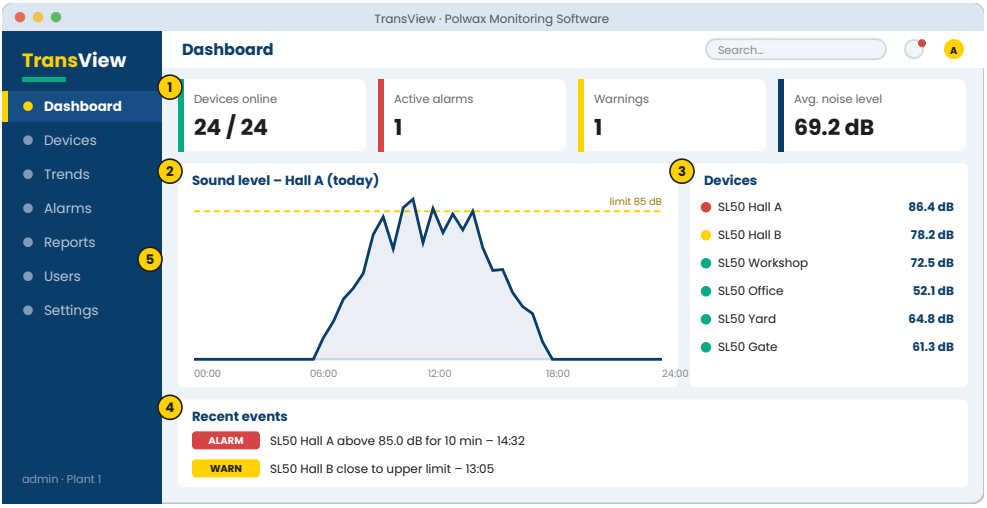


SL50 (RS485)

NOTE
Analogue versions (4 – 20 mA, 0 – 10 V) are connected to TransView through a Polwax controller with analogue inputs, or read directly by a PLC / BMS.

+ Dashboard

After login, the dashboard shows the state of all devices of the plant at a glance.

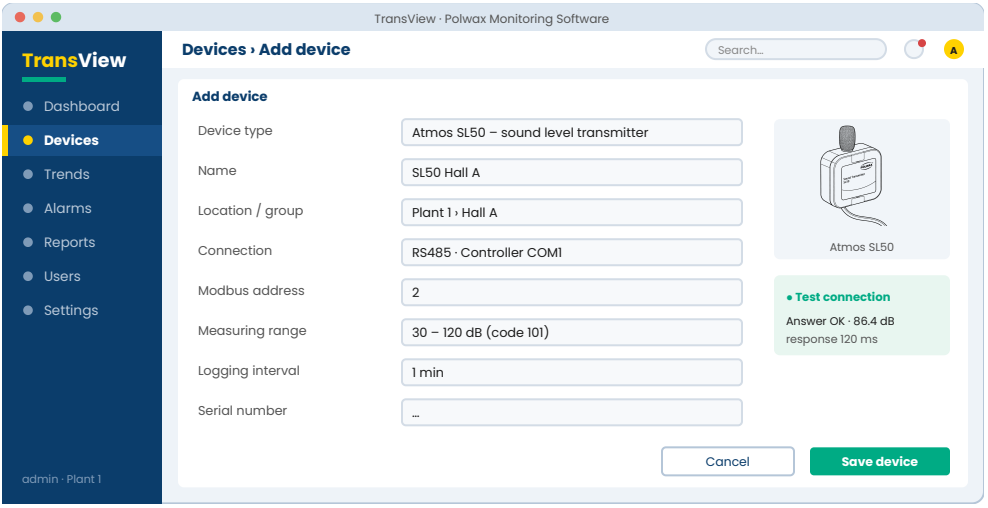


Illustrative screen – the final TransView user interface may differ.

No.	Element	Description
1	Status tiles	Devices online, active alarms, warnings, key value
2	Live chart	Today's values of the selected device with limit lines
3	Device list	All transmitters with current value and colour status
4	Recent events	Latest alarms and warnings with time
5	Navigation	Dashboard, devices, trends, alarms, reports, users, settings

OK Warning Alarm Offline

+ Adding an SL50 to TransView



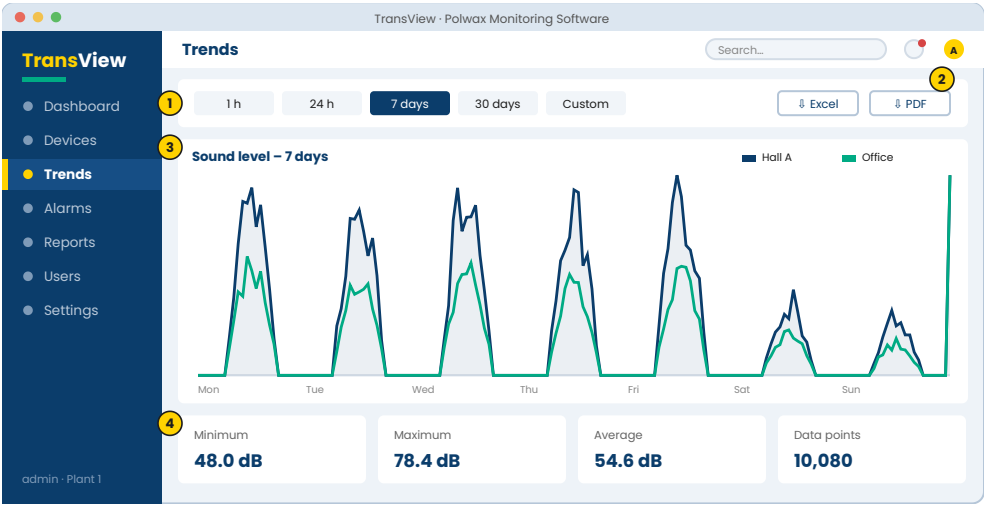
Illustrative screen – the final TransView user interface may differ.

1. Open **Devices › Add device** and select the device type **Atmos SL50**.
2. Enter name and location so the device can be found in the plant structure.
3. Select the connection (controller / gateway port) and the Modbus address of the SL50.
4. Enter the measuring range from the type label.
5. **Test connection** – the current value must be displayed.
6. Set the logging interval and click **Save device**.

> **NOTE**
> Use the same name and Modbus address as in your plant documentation, so that each value can be traced to its position in the plant.

+ Trends and history

TransView stores every value with time stamp. The trend view shows the history of one or several devices.



Illustrative screen – the final TransView user interface may differ.

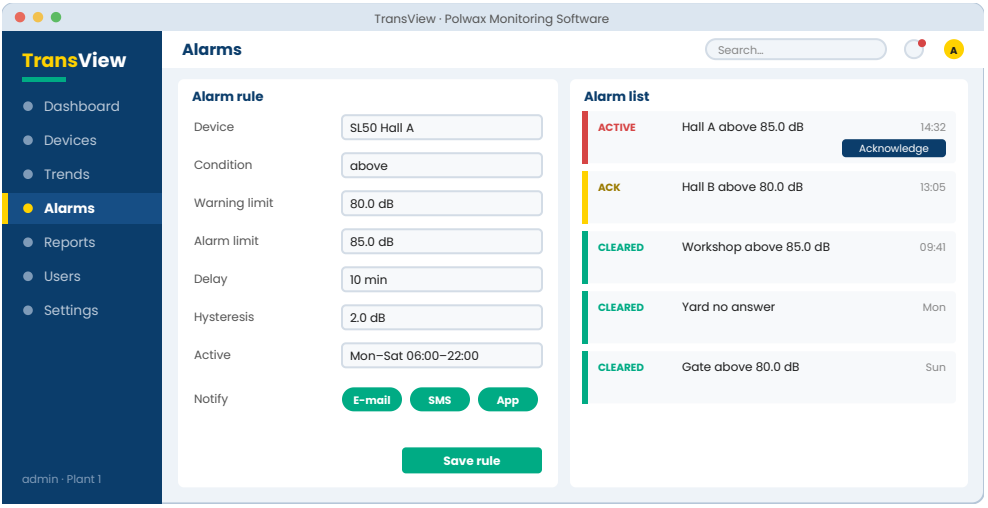
No.	Function
1	Time range: 1 h, 24 h, 7 days, 30 days or custom period
2	Export of the displayed data to Excel or PDF
3	Chart with zoom; compare several devices in one view
4	Statistics of the period: minimum, maximum, average, number of values

+ Typical use

- Find times and areas with high noise
- Compare noise before and after measures
- Noise reports for authorities and HSE

+ Alarms and notifications

Alarm rules compare each value with limits. When a limit is violated for longer than the delay, TransView raises a warning or alarm and notifies the responsible persons.

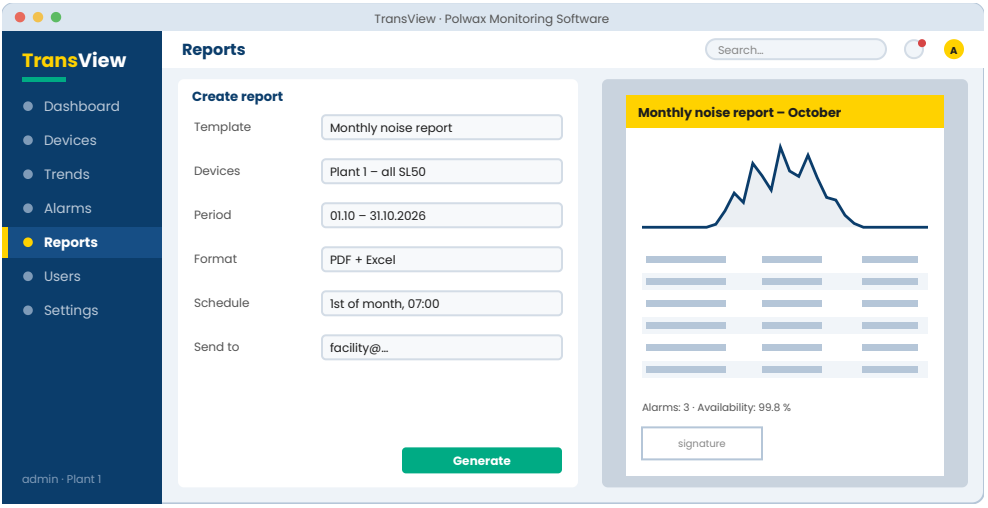


Illustrative screen – the final TransView user interface may differ.

Setting	Meaning
Warning / alarm limit	Two levels, above or below a value
Delay	Limit must be exceeded for this time – avoids alarms from short events
Hysteresis	Value must return by this amount before the alarm clears
Active time	Rule only active e.g. during working hours
Notify	E-mail, SMS or push message in the app
Acknowledge	Operator confirms the alarm; name and time are logged

+ Reports

Reports summarise values, statistics and alarms of a period. They can be created on demand or sent automatically.



Illustrative screen – the final TransView user interface may differ.

+ Report types

- Daily, weekly, monthly
- Per device, group or plant
- Statistics and alarm summary
- Availability of devices

+ Output

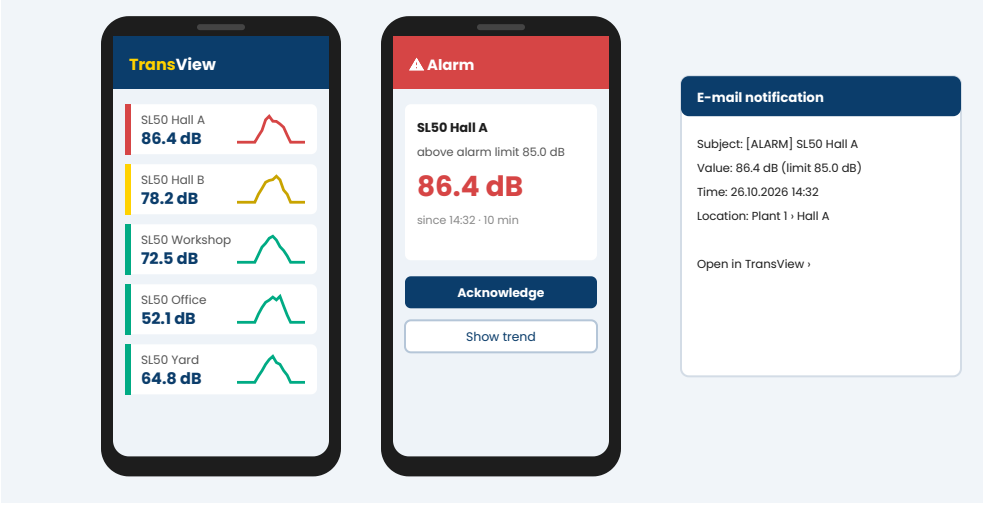
- PDF for documentation
- Excel for evaluation
- Automatic e-mail distribution
- Archive in TransView

+ Data storage

Item	Description
Storage	All values with time stamp in the TransView database
Backup	Regular database backup recommended
Access	Login with user name and password, rights per role
Traceability	Audit trail of changes and acknowledgements

+ Mobile access

With the TransView app, current values and alarms are available on the phone. Alarms can be acknowledged directly from the notification.



Illustrative screen – the final TransView user interface may differ.

+ Users and rights

Role	Rights
Administrator	Plant structure, devices, users, all settings
Engineer	Devices, alarm rules, reports
Operator	View values, acknowledge alarms
Viewer	Read-only access to dashboards and reports

All changes to devices, limits and users and all alarm acknowledgements are recorded in the **audit trail** with user name and time.

+ Licence

TransView is licensed per installation – Polwax monitoring software licence **3990 0401**. Contact Polwax for the number of devices and users.

11 OPERATION

In normal operation the SL50 works without user intervention. The measured value is updated continuously.

+ Using the measured values

Application	Typical use of the value
Worker safety	Mark noise zones, warn above action values
Smart city	Find noise hotspots, enforce limits
Healthcare	Keep wards and ICU quiet
Documentation	Noise reports for authorities

+ Recommendations

- Use averaging (e.g. 1 min or 15 min) for limit evaluation.
- Use delays to avoid alarms from single short events.
- Check the windscreen regularly outdoors.

> **NOTE**
> A value constantly at minimum or maximum usually means a wiring fault, an overrange or a blocked sensor (→ page 33).

+ Operating limits

Operating temperature	**-10 … +60 °C**
Humidity	**0 – 95 % RH, non-condensing**
Protection	**IP65**

12 MAINTENANCE

+ Maintenance schedule

Task	Interval
Visual inspection: windscreen, housing, cable	Every 3 months
Replace foam windscreen	When dirty or damaged, at least yearly outdoors
Check cable gland and fixing	Yearly
Plausibility check with reference meter	Yearly
Recalibration	Every 12 – 24 months or per quality system

+ Windscreen and microphone

1. Pull the foam windscreen off carefully.
2. Replace a dirty or damaged windscreen (3990 0601).
3. Do not touch the microphone membrane; do not blow compressed air on it.
4. Fit the windscreen again completely.

CAUTION
Do not use solvents, alcohol, abrasive cleaners or high-pressure water on the device.

+ Calibration and recalibration

The SL50 is adjusted at the factory. A calibration certificate is available as an option (3990 0501). To maintain traceable accuracy, recalibrate the transmitter regularly with the Polwax recalibration service (3990 0502).

1. Contact Polwax service and request a return number.
2. Remove the device, record serial number and position.
3. Pack the device in the original or equivalent packaging.
4. Send it with the return form; install a spare device if needed.
5. After recalibration, reinstall and check the device.

+ Spare parts and repair

Apart from the parts listed as accessories, the SL50 contains no user-serviceable parts. Do not open the electronics – this voids the warranty. Damaged devices must be repaired by Polwax.

+ Maintenance record

Date	Work carried out	Name

13 TROUBLESHOOTING

Fault	Possible cause	Remedy
No value / no answer (RS485)	No supply · A / B swapped · wrong address or baud rate · no termination	Check supply and wiring · swap A / B · check settings · terminate the bus
Communication errors (CRC, timeouts)	Interference · stubs too long · duplicate addresses	Use shielded twisted pair · daisy chain · unique addresses
Analogue signal < 4 mA	Open circuit · no supply	Check cable, terminals and fuse
Value too low	Windscreen wet or blocked · wrong position	Dry / replace windscreen · check the position
Value too high	Local noise source next to the microphone · wind	Change the position · fit the windscreen

Fault	Possible cause	Remedy
Value fluctuates strongly	Short events, traffic	Use averaging in the control system
No change when clapping	Microphone damaged · wiring	Check wiring, contact Polwax service
Water in the housing	Cover not closed · gland not tight	Switch off, dry, contact Polwax service

+ Frequently asked questions

Does the SL50 measure dB(A)?
See the type label and test report for the frequency weighting of your device.

Can I use it outdoors?
Yes, with IP65 housing and windscreen; protect it from direct rain on the microphone.

How is the value transmitted via Modbus?
Register 0000H as integer value × 10, e.g. 713 = 71.3 dB.

How many transmitters per RS485 bus?
Up to 32 unit loads per segment; more with repeaters.

> **NOTE**
> If a fault cannot be resolved, contact Polwax service with order code, serial number and a description of the fault (→ page 35).

14 SERVICE & DISPOSAL

+ Service and returns

- Contact: export@polwax.it · info@polwax.in
- State order code, part code and serial number
- Describe the fault and the installation conditions
- Return the device clean, with the return number on the parcel

+ Decommissioning

1. Switch off the power supply.
2. Open the cover, disconnect the wires and insulate open conductors.
3. Remove the device from the wall.
4. Update the plant documentation.

+ Disposal



Electronic devices must not be disposed of with household waste. Dispose of the device and packaging according to the local regulations for electrical and electronic equipment, or return it to Polwax.

+ Warranty

The warranty conditions of the sales contract and Polwax terms of sale apply. Damage caused by improper installation, use, opening of the device or failure to follow this manual is excluded.

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Authorised distributor / stamp

Doc. No. **392615011** · Part code **3915 0101** · Rev. 01 · 10/2026 · English

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