

ThermalDIAG - User Manual

Operator-oriented guide with roles, workflows, page overview, safety notes and current ThermalDIAG screenshots.

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Author	JC-Technology GmbH		

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Date: 2026-08-13

1. Purpose of This Manual

This manual describes ThermalDIAG from the perspective of operators, technicians, administrators and responsible users. It explains the main pages, roles, workflows and safety-related operating notes.

ThermalDIAG monitors industrial plants with thermal cameras, digital signals, analog measurements and project-specific rules. The application creates incidents, documents evidence and supports ticket workflows for inspection, maintenance and feedback.

This document is not a developer manual and not a safety approval. Technical changes to rules, outputs, cameras, I/O gateways or runtime settings may only be

made with the right role and sufficient plant knowledge.

2. Roles and Responsibilities

Viewer

Viewers can see monitoring and visualization information. This role is useful for kiosk or observation views where no operative configuration should be changed.

Typical tasks:

- view the Home dashboard;
- review current or historical visualization;
- use status information for observation or shift handover.

Technician

Technicians handle assigned tickets. They document measurements, checklist steps, work notes and evidence.

Typical tasks:

- open assigned tickets;
- read work instructions;
- complete checklists;
- enter measurements and notes;
- add attachments or evidence;
- return the ticket for review.

Operator

Operators monitor live operation, handle incidents and control ticket workflows.

Typical tasks:

- check the system at shift start;
- review active incidents;
- take ownership of an incident and assess it;
- create a ticket and assign a technician;
- review ticket completion;
- classify health warnings;
- use operative settings within the released operating framework.

Admin

Admins maintain operational configuration and users. Depending on the installation, they can manage projects, locations, rules, I/O, settings and workflows.

Typical tasks:

- create projects and locations;
- assign cameras and I/O signals;
- maintain rules;
- manage users;
- review system configuration;
- support commissioning and change control.

3. Daily Workflow

3.1 Start of Shift

At the start of a shift, operators should check whether the system is running as expected.

Typical checks:

- Home dashboard status;
- active incidents;
- health warnings;
- recent tickets or open work;
- camera or I/O connection state;
- last known measurement activity.

3.2 Handling an Incident

When an incident appears, the operator should first understand the context:

1. Open the incident.
2. Review trigger time, rule and affected plant area.
3. Compare current and historical measurements.
4. Review available snapshots or evidence.
5. Decide whether the incident is observation, maintenance, ticket work or a false/irrelevant event.
6. Add notes if needed.
7. Create or update a ticket if technical work is required.

3.3 Creating a Ticket

A ticket turns an incident into a structured work task. It can include assignment, priority, work instruction, checklist, measurement tasks, notes and attachments.

Technicians should document what was checked, which measurements were taken and which conclusion was reached.

3.4 Completing Work

Before a ticket or incident is closed, the responsible user should check:

- whether the required measurements or checklist points are complete;
- whether the evidence is sufficient;
- whether the result is understandable for later review;
- whether a report or shift handover note is needed;
- whether rule or configuration changes should be prepared.

4. Main Pages

Home

Project: Werk Linz - Förderlinie 1

Browser Voice Off

Home Projects Variables I/O Locations Discovery Rules Incidents Tickets Users Snapshots Health Visualization Settings Help

Home

Start view for the selected project.

Logged in as Supervisor (supervisor). User: **Supervisor Demo** Role: supervisor Logout

Change password: Current password New password Confirm new password

ThermalDIAG V.1.262

JC-Technology GmbH

Industrial Thermal & I/O Monitoring with incidents, evidence, tickets, and runtime health.

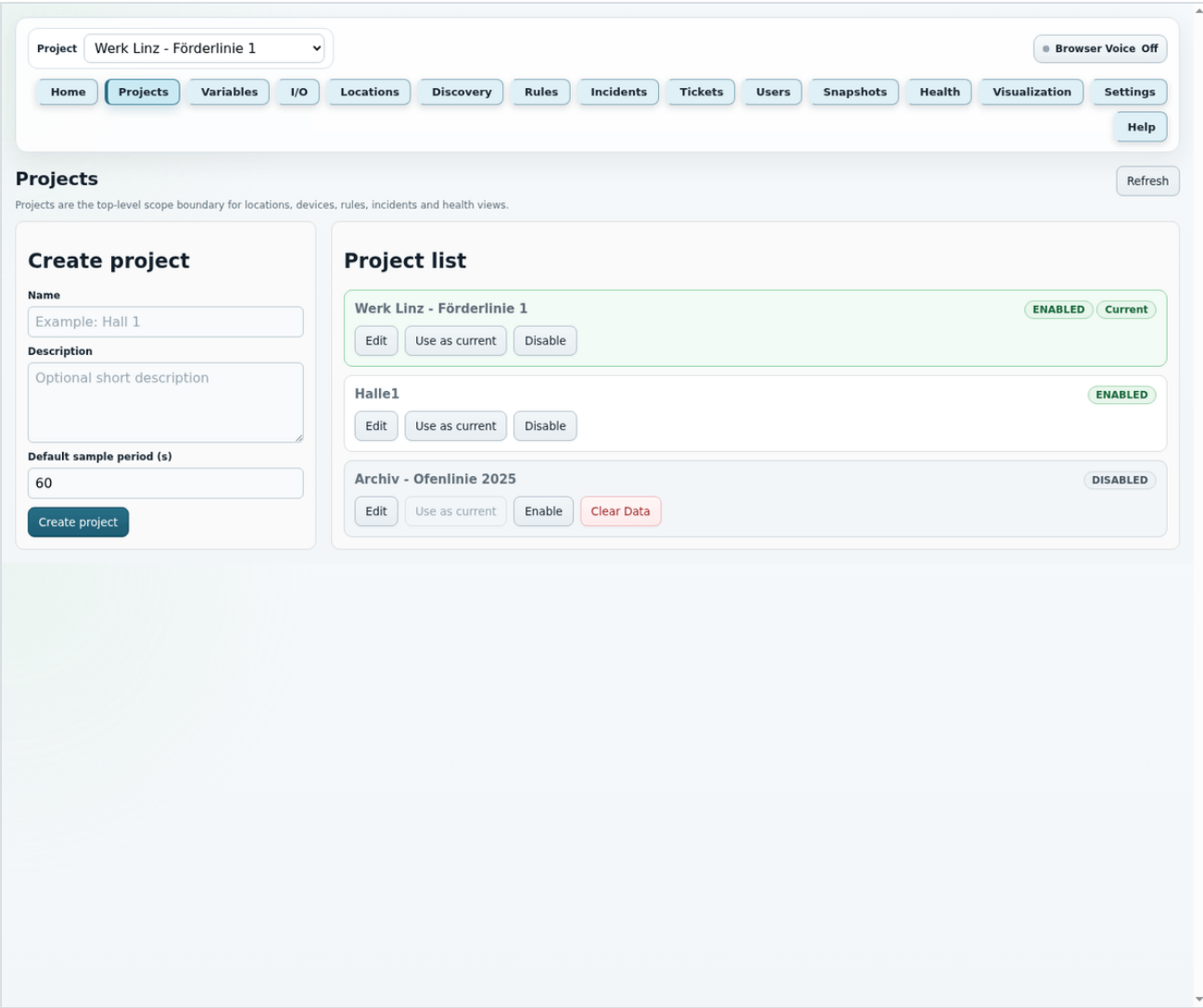
Dashboard refreshed: 13:54:04

Devices 2 / 2	Active Incidents 2	Last 24h Activations 5	Health Warnings 1
-------------------------	------------------------------	----------------------------------	-----------------------------

ThermalDIAG Home dashboard

Home gives a compact overview of projects, active incidents, ticket state, health warnings and recent events.

Projects



ThermalDIAG Projects page

Projects structure the plant or measurement task. Each project contains the relevant locations, users, settings and data context.

Locations

ProjectWerk Linz - Förderlinie 1

Browser VoiceOff

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Locations

New location

Source: /locations/overview

Location	Status	Device	Serial	IP	Last seen	Last error	Actions
Förderlinie 1 - Antrieb	ONLINE	AX8 Förderlinie 1 - Antrieb	4242	192.168.178.42:80	2026-08-14 13:54:00		RenameEndpointDisable runtimeROIs Save radiometric test imageUnassign
Förderlinie 1 - Umlenkung	ONLINE	AX8 Förderlinie 1 - Umlenkung	6262	192.168.178.62:80	2026-08-14 13:54:00		RenameEndpointDisable runtimeROIs Save radiometric test imageUnassign

ThermalDIAG Locations overview

ROI

Förderlinie 1 - Antrieb

Edit optional ROI short names, descriptions, enable flags, and measurement history cadence for this location. Empty short names fall back to the camera ROI label. Missing camera ROI entries keep editable names and descriptions, but camera-dependent controls stay disabled.

Sync ROI

Save all

Close

Camera ROI	Short name (optional)	Description	Camera status	ROI enabled	History enabled	Store every (s)
Spot 1	Lager oben	Hotspot am oberen Lagerbock	Present	☒ Enabled	☒ History enabled	5
Spot 2	Lager unten	Referenzpunkt am unteren Lager	Present	☒ Enabled	☒ History enabled	5
Spot 3			Present	☐ Enabled	☐ History enabled	5
Spot 4			Present	☐ Enabled	☐ History enabled	5
Spot 5			Disabled	☐ Enabled	☐ History enabled	
Spot 6			Disabled	☐ Enabled	☐ History enabled	
Box 1	Motor-Gehäuse	Hauptüberwachungsbereich am Motor	Present	☒ Enabled	☒ History enabled	5
Box 2	Getriebe	Getriebe- und Kupplungsbereich	Present	☒ Enabled	☒ History enabled	5
Box 3			Disabled	☐ Enabled	☐ History enabled	
Box 4			Disabled	☐ Enabled	☐ History enabled	
Box 5			Disabled	☐ Enabled	☐ History enabled	
Box 6			Disabled	☐ Enabled	☐ History enabled	
Line 1	Temperaturprofil	Linienprofil über Motor und Kupplung	Present	☐ Enabled	☐ History enabled	

ThermalDIAG ROI panel

Locations connect real plant areas with cameras, measurement points and signals. They help users understand where an event belongs physically.

Variables

ProjectWerk Linz - Förderlinie 1

Browser VoiceOff

HomeProjectsVariablesI/OLocationsDiscoveryRulesIncidentsTicketsUsersSnapshotsHealthVisualizationSettingsHelp

Variables

RefreshSave allClear all values

View system variables and manage the current project's 100 persistent numeric variables.
Current project: Werk Linz - Förderlinie 1

System variables

Read-only values supplied by ThermalDIAG. They can be used as Rule operands but cannot be changed.

Internal name	Display name	Current value	Unit	Access
timer_sec	Timer seconds	1786708446	s	Read only
local_minute_of_day	Local minute of day	834	min	Read only
local_day_of_week	Local day of week	5	iso_day	Read only

Project numeric variables

Search variables
Name or num1...num100

100 / 100

Internal name	Display name	Decimal places	Current value
num1 Anfahrzyklen heute(num1)	Anfahrzyklen heute	0	128
num2 Grenzwert Motor max(num2)	Grenzwert Motor max	1	45.0
num3 Wartungszähler(num3)	Wartungszähler	0	14
num4 Impulsdauer Warnhupe ms(num4)	Impulsdauer Warnhupe ms	0	1200
num5 Produktionslast Faktor(num5)	Produktionslast Faktor	2	0.82
num6	Optional name	0	0
num7	Optional name	0	0
num8	Optional name	0	0
num9	Optional name	0	0

ThermalDIAG Variables page

Variables can hold thresholds, counters, parameters or calculated values for a project. They may be used by rules, actions and visualization.

I/O

Project Werk Linz - Förderlinie 1

Browser Voice Off

Home Projects Variables **I/O** Locations Discovery Rules Incidents Tickets Users Snapshots Health Visualization Settings

I/O

Refresh Save all

Configure global Modbus I/O points and their history storage cadence.

I/O point	Short name (optional)	Description	Current value	Unit	Scale	Offset	Status	I/O Enabled	History Enabled	Store every (s)
Wartungstür Antrieb (DI1) Digital input	Wartungstür Antrieb	Digitaler Eingang: Wartungstür am Antriebsschrank.	OFF		1	0	OK 2026-08-14 13:54:07	☒	☒	5
Förderer Freigabe (DI2) Digital input	Förderer Freigabe	Digitaler Eingang: Freigabesignal der Förderlinie.	OFF		1	0	OK 2026-08-14 13:54:07	☒	☒	5
DI3 Digital input			OFF		1	0	DISABLED	☐	☐	60
DI4 Digital input			OFF		1	0	DISABLED	☐	☐	60
DI5 Digital input			-		1	0	DISABLED	☐	☐	60
DI6 Digital input			-		1	0	DISABLED	☐	☐	60
DI7 Digital input			-		1	0	DISABLED	☐	☐	60
DI8 Digital input			-		1	0	DISABLED	☐	☐	60
Warnleuchte gelb (DO1) Digital output	Warnleuchte gelb	Digitaler Ausgang: gelbe Warnleuchte im Schaltschrank.	OFF		1	0	OK 2026-08-14 13:54:07	☒	☒	5
Hupe quittierbar (DO2) Digital output	Hupe quittierbar	Digitaler Ausgang: quittierbare Hupe für Bediener.	OFF		1	0	OK 2026-08-14 13:54:07	☒	☒	5
DO3 Digital output			-		1	0	DISABLED	☐	☐	60
DO4 Digital output			-		1	0	DISABLED	☐	☐	60
DO5 Digital output			-		1	0	DISABLED	☐	☐	60
DO6 Digital output			-		1	0	DISABLED	☐	☐	60
DO7 Digital output			-		1	0	DISABLED	☐	☐	60

ThermalDIAG I/O page

I/O shows configured external digital and analog signals in the project context. Digital outputs may affect connected equipment and must be handled only within the released operating concept.

Discovery

ProjectWerk Linz - Förderlinie 1

Browser VoiceOff

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Discovery

Scan the network for reachable devices (ports). Source: /discovery/scan

CIDR (optional)

Use either CIDR OR from/to range.

From IP (optional)

192.168.178.40

Timeout (ms)

350

Ports (comma separated)

80,554,502

Example: 80,554,502

To IP (optional)

192.168.178.70

Max results

20

Start scan

Done. Found: 2

Assign to location:(no unassigned locations)

Refresh

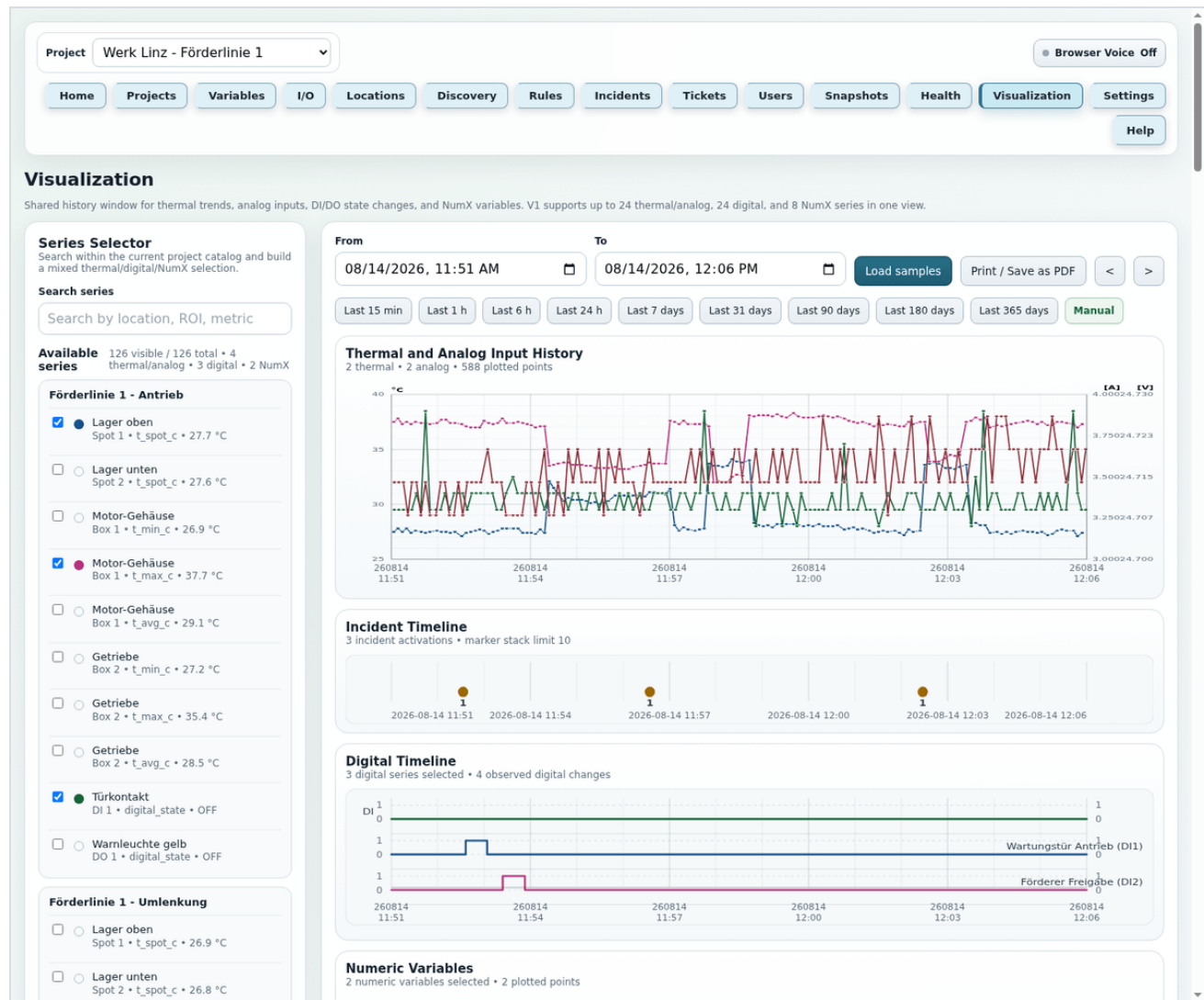
IP	Open ports	Known	Matched device	HTTP server	HTTP title	Actions
192.168.178.42	80, 554, 502	yes	AX8 Förderlinie 1 - Antrieb (f427da1b-d9c3-4251-818d-f148097cc85f)			
192.168.178.62	80, 554, 502	yes	AX8 Förderlinie 1 - Umlenkung (38bd7699-9b12-4630-a2cc-2f71786ba323)			

Known but not found

ThermalDIAG Discovery page

Discovery supports commissioning and service work by finding reachable devices in a deliberately limited network range and assigning them to locations.

Visualization



ThermalDIAG Visualization overview



ThermalDIAG Visualization with digital and NumX series

Visualization shows historical values. Depending on the project, this may include temperatures, analog values, digital states and incident markers.

Rules

ProjectWerk Linz - Förderlinie 1

Browser Voice Off

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Rules

Create, inspect and extend project-level rules with actions.

Rule name filter

Filter by rule name

Rule list

+ New rule

Select a rule to inspect it, edit it, or manage its conditions and actions.

Motor-Gehäuse über Grenzwert

Order: 1

Severity: 8 • Conditions: AND • Cooldown: 90

1 conditions • 4 actions

Motor-Gehäuse • Max temp. > Grenzwert Motor max(num2)

↑ ↓ **ENABLED**

Lager oben über Vorwarnschwelle

Order: 2

Severity: 6 • Conditions: AND • Cooldown: 120

1 conditions • 4 actions

Lager oben • Temp. > 30.0 °C

↑ ↓ **ENABLED**

Wartungstür bei laufendem Förderer

Order: 3

Severity: 5 • Conditions: AND • Cooldown: 60

2 conditions • 0 actions

Modbus I/O Schaltschrank Linie 1 / Wartungstür Antrieb • Digital state = 1

↑ ↓ **ENABLED**

Selected rule: Lager oben über Vorwarnschwelle **ENABLED**

Severity: 6 • Conditions: AND • Cooldown: 120

OverviewRuleConditionsFiltersActions

Overview

Conditions

#1 Lager oben • Temp. > 30.0 °C

ENABLEDEdit

Filters

No filters yet.

Actions

Create event

When: On activation

ENABLEDEdit

Snapshot

When: On activation

Target: Förderlinie 1 - Antrieb

ENABLEDEdit

Voice

When: On activation

DISABLEDEdit

ThermalDIAG Rules page

Rules define when ThermalDIAG should react. Rules should be changed only by users who understand the plant process and the consequences of automatic actions.

Incidents

ProjectWerk Linz - Förderlinie 1

Browser VoiceOff

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Incidents

Open incidents by default • Source: /virtual-alarm-instances

View

Open incidents

Workflow state

All in current view

Condition

Any

Rule name

Filter by rule name

Outcome

Any

Visible incidents2

Active now0

Waiting for technical service0

Resolved0

Highest severity6

Rule	Severity	Workflow	Outcome	Condition	Opened	Last active	Last inactive	Count	Ack by	Actions
Lager oben über Vorwarnschwelle	6	NEW	-	INACTIVE NOW	2026-08-14 12:02:27	2026-08-14 13:47:07	2026-08-14 13:47:12	2		Ack Close
Wartungstür bei laufendem Förderer	5	NEW	-	INACTIVE NOW	2026-08-14 11:52:32	2026-08-14 11:52:32	2026-08-14 11:53:00	1		Ack Close

Incident Summary

Rule, condition, action and lifecycle summary for the selected incident

Select an incident row.

ThermalDIAG Incidents page

Incidents collect rule trigger context, measurements, timestamps, evidence, notes and lifecycle state.

Tickets

ProjectWerk Linz - Förderlinie 1

Browser Voice Off

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Tickets

1 ticket

StatusAll open

Status	Priority	Title	Assigned to	Created	Ticket ID	Detail
In progress	Urgent	Motor Linie 1 prüfen In progress • Urgent Kühlung, Lager und mechanische Last am Motor-Gehäuse kontrollieren.	Stefan Berger (technician)	2026-08-11 12:06:12	28ea2039-f20f-566c-9a52-6121993ce8a1	Open

Ticket detail
Loaded.

Title
Motor Linie 1 prüfen

Assigned to
Stefan Berger (technician)

Status
In progress

Incident
5e97bc41-da4f-5a58-a05d-489a61e813a1
[Printable report](#)

Priority
Urgent

Ticket
28ea2039-f20f-566c-9a52-6121993ce8a1
[Export CSV](#)
[Export PDF](#)

Work instruction
Kühlung, Lager und mechanische Last am Motor-Gehäuse kontrollieren.

Status change

Current status
In progress

Change status to
Check done

Apply status change

Supervisor can change this ticket to the allowed next status.

General work note

General work note
Describe what was checked, measured, found, and recommended...

Add note

Work tasks / Checklist

Checklist tasks are defined by admin/operator users. Technicians update task results below.
These actions are available for your role on this ticket.

☒ **Sichtprüfung Lüfter und Luftkanäle**
Done: 2026-08-11 12:16:12

Task result / note
unauffällig

ThermalDIAG Tickets page

Tickets support work assignment, checklist execution, measurements, notes, attachments and completion review.

Snapshots

ProjectWerk Linz - Förderlinie 1

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Snapshots

Review queued, running, completed, and failed background snapshot work for virtual alarm actions.

Delete all snapshots

StatusAll

Rule idOptional rule UUID

Incident idOptional incident UUID

Limit50

Only failedOff

Visible jobs3

Queued0

Running0

Failed0

All snapshots5

Created	Status	Rule	Device	Attempts	Result
2026-08-14 13:47:08	Done	Lager oben über Vorwarnschwelle Reactivated	AX8 Förderlinie 1 - Antrieb Förderlinie 1 - Antrieb	1/3	Snapshot was captured and stored successfully. Annotated: View / Download Raw: View / Download Delete
2026-08-14 11:49:07	Done	Motor-Gehäuse über Grenzwert Opened	AX8 Förderlinie 1 - Antrieb Förderlinie 1 - Antrieb	1/3	Snapshot was captured and stored successfully. Annotated: View / Download Raw: View / Download Delete
2026-08-11 12:22:11	Done	Motor-Gehäuse über Grenzwert Opened	AX8 Förderlinie 1 - Antrieb Förderlinie 1 - Antrieb	1/3	Snapshot was captured and stored successfully. Annotated: View / Download Raw: View / Download Delete

Job Detail

Primary diagnosis: Snapshot was captured and stored successfully.

StatusDone

DiagnosisSnapshot was captured and stored successfully.

RuleLager oben über Vorwarnschwelle

Incident3dc18ad1-7226-4d1f-8dbc-d5738e794cb2

Action26260814-0000-4000-8000-000000000102

DeviceAX8 Förderlinie 1 - Antrieb

LocationFörderlinie 1 - Antrieb

TransitionReactivated

KindCurrent snapshot

Attempts1/3

Created2026-08-14 13:47:08

Started2026-08-14 13:47:08

Finished2026-08-14 13:47:10

Duration1.8s

SnapshotAnnotated: [View](#) / [Download](#) Raw: [View](#) / [Download](#) [Delete](#)

Last error-

Note[Lager 30C] Vorwarnschwelle am oberen Lager dokumentieren.

ThermalDIAG Snapshot jobs

Snapshots provide visual evidence for relevant points in time. The exact availability depends on camera state, project configuration and runtime.

Users

Project Werk Linz - Förderlinie 1

Browser Voice Off

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Users

5 users

Create user

Username

Display name

Temporary password

Role

Operator

Email

Phone

Create

Refresh

Role	Status	Username	Name	Email	Phone	Password	Actions
Admin	active	anlagenadmin	Anna Leitner	anna.leitner@werk-linz.example	+43 732 555 10	set	Edit Reset passw Deactivate
Operator	active	schichtfuehrer	Markus Hofer	markus.hofer@werk-linz.example	+43 732 555 10	set	Edit Reset passw Deactivate
Supervisor	active	supervisor	Supervisor Demo	supervisor@werk-linz.example	+43 732 555 10	set	Edit Reset passw Deactivate
Technician	active	instandhaltung	Stefan Berger	stefan.berger@werk-linz.example	+43 732 555 10	set	Edit Reset passw Deactivate
Viewer	active	leitstand	Leitstand Monitor	leitstand@werk-linz.example	+43 732 555 10	set	Edit Reset passw Deactivate

ThermalDIAG Users page

Users and roles define who may observe, operate, handle tickets or configure the system.

Health

ProjectWerk Linz - Förderlinie 1

Browser VoiceOff

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Health

Project: Werk Linz - Förderlinie 1

Snapshot worker is healthy and the queue is clear.

View

All rows

Clean Health

Startup runtime

Runtime running

Runtime running

Startup mode: Normal startup

Startup decision

Safe restart

Last event 2026-08-14 08:02:14
Startup mode: Normal startup

Runtime checkpoints

OK

Virtual alarm evaluatorFresh1 s
Action workerFresh0 s
Impulse workerFresh0 s
Modbus I/O workerFresh0 s

Pause runtime

Resume runtime

Startup Actions

Startup Actions

OK

The latest Startup Action run completed successfully.
Configured: 3

Run items

0

Pending: 0
Waiting: 0
Running: 0
Succeeded: 3
Failed: 0
Cancelled: 0
Skipped: 0
Manual review: 0

Latest run

Succeeded

Status: Succeeded
Trigger: Startup decision
Created: 2026-08-14 08:02:14
Started: 2026-08-14 08:02:14
Finished: 2026-08-14 08:02:14

Latest run items

3

#	Type	Status	Scheduled	Updated	Result	Admin
1	Startup log event	Succeeded	-	2026-08-14 08:02:14	Runtime wurde fortgesetzt. ►Diagnostics	-
2	Email	Succeeded	-	2026-08-14 08:02:14	Email dry_run, recipients: 1 ►Diagnostics	-
3	voice	Succeeded	-	2026-08-14 08:02:14	- ►Diagnostics	-

ThermalDIAG Health overview

Modbus I/O channels								
24 shown								
Channel	Type	Status	Value	Poll interval (s)	Stale after (s)	Last measurement	Age (s)	Last error
AIN1 Modbus I/O Schaltschrank Linie 1 192.168.178.240:502	analog_current	OK	3.400 A	1.000	6	2026-08-14 13:54:33	1	
AIN2 Modbus I/O Schaltschrank Linie 1 192.168.178.240:502	analog_voltage	Disabled	0.000 V	1.000	6	2026-08-10 11:42:12		
AIN3 Modbus I/O Schaltschrank Linie 1 192.168.178.240:502	analog_voltage	OK	24.726 V	1.000	6	2026-08-14 13:54:33	1	
AIN4 Modbus I/O Schaltschrank Linie 1 192.168.178.240:502	analog_voltage	Disabled	0.000 V	1.000	6	2026-08-14 11:11:40		
AIN5 Modbus I/O Schaltschrank Linie 1 192.168.178.240:502	analog_voltage	Disabled		1.000	6	-		
AIN6 Modbus I/O Schaltschrank Linie 1 192.168.178.240:502	analog_voltage	Disabled		1.000	6	-		
AIN7 Modbus I/O Schaltschrank Linie 1 192.168.178.240:502	analog_voltage	Disabled		1.000	6	-		
AIN8 Modbus I/O Schaltschrank Linie 1 192.168.178.240:502	analog_voltage	Disabled		1.000	6	-		
DI1 Modbus I/O Schaltschrank Linie 1 192.168.178.240:502	digital_input	OK	OFF	0.100	2	2026-08-14 13:54:34	0	
DI2 Modbus I/O Schaltschrank Linie 1 192.168.178.240:502	digital_input	OK	OFF	0.100	2	2026-08-14 13:54:34	0	
DI3 Modbus I/O Schaltschrank Linie 1 192.168.178.240:502	digital_input	Disabled	OFF	0.100	6	2026-08-10 11:41:46		
DI4 Modbus I/O Schaltschrank Linie 1 192.168.178.240:502	digital_input	Disabled	OFF	0.100	6	2026-08-10 11:41:46		
DI5 Modbus I/O Schaltschrank Linie 1 192.168.178.240:502	digital_input	Disabled		0.100	6	-		
DI6 Modbus I/O Schaltschrank Linie 1 192.168.178.240:502	digital_input	Disabled		0.100	6	-		

ThermalDIAG Health Modbus I/O

Health helps administrators and operators detect runtime, camera, I/O, rule or job problems.

Settings

ProjectWerk Linz - Förderlinie 1

Browser VoiceOff

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Settings

RefreshSave all

Adjust safe operational defaults without changing code or environment files.
Last updated: 2026-08-14 13:53:55Polling and impulse timing changes require restart

License

Offline license status for this installation.
License status: valid
Edition: standard
Valid until: 2027-08-04 01:59:59
Customer: JC-Technology ThermalDIAG Development

Report Settings

These fields appear in printable incident evidence reports for the current project.
Customer / companyMusterwerk Linz GmbH
DepartmentInstandhaltung Fördertechnik
Site / plantWerk Linz, Halle 3
Logo URL/static/customer-logo.png
Project time zoneEurope/Vienna
Footer textThermalDIAG Demo-Dokumentation - vertraulich

Polling

These settings affect backend timing. Restart is required after saving.
Device status poll interval (s)10
Measurement ingest interval (s, DI/DO sampling cadence)1
Impulse worker poll interval (ms, output timing)100
Device offline after (s)45

UI Refresh

Application languageEnglish
Temperature display unitCelsius (°C)
UI auto refresh (s)3
Auto logout after inactivity (min)30
Virtual alarm edge hold time (s)5
Live thermal gap join limit (s)10
Snapshot HTTP timeout before RTSP fallback (s)3

Other

Project Sampling

This setting applies to the current project selected in the global header.
Default sample period (s)5

Installation limits

Global limits for this installed ThermalDIAG package.
Maximum cameras

ThermalDIAG Settings overview

Startup Actions

Project-specific actions that are queued once after application startup or runtime resume.

Configured Startup Actions

Add Startup Action

Start ins Ereignisprotokoll schreiben

Order: 1 · Startup log event
Runtime wurde fortgesetzt.

↑↓ENABLEDEditDelete

Wartung über Runtime-Start informieren

Order: 2 · Email
1 email · ThermalDIAG Runtime gestartet

↑↓ENABLEDEditDelete

Lokale Startmeldung

Order: 3 · Voice
Voice DE: ThermalDIAG Überwachung ist aktiv.

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ThermalDIAG startup actions

Settings contain operating parameters. Changes should be documented and made only within the agreed project framework.

5. Working With Rules

Rules should be treated carefully. A rule can influence alarms, incidents, snapshots, messages or physical outputs.

Before changing a rule, users should clarify:

- what problem the rule is meant to detect;
- which measurements and signals are reliable;
- whether short peaks should be ignored;
- which hold times, hysteresis or filters are useful;
- which actions are allowed;
- who must release the change.

If historical data is available, rule ideas can be checked with ThermalDIAG Analytics before a new rule is released in ThermalDIAG.

6. Working With Outputs and Actions

Physical outputs and automatic actions must be handled with special care. They may affect signal lamps, test aids, plant interfaces or other connected systems.

Important rules:

- never use outputs without a clear electrical and operational concept;
- define who owns the output in the plant;
- avoid conflicting control by different systems;
- test safely before productive use;
- document changes and release decisions.

7. Reports and Handover

Reports and notes should make the result understandable for someone who did not watch the event live.

A useful report or handover note usually includes:

- affected plant area;
- incident time and rule;
- relevant measurements and signal states;
- technician findings;
- attached evidence;
- conclusion and next action.

8. Common Operating Notes

Missing Data

Missing or incomplete data can come from camera connection problems, I/O connection problems, disabled history settings or runtime issues. Check Health and project configuration before drawing conclusions.

Unexpected Alarms

Unexpected alarms can be caused by threshold settings, short peaks, missing filters, changed operating behaviour or measurement quality. Do not simply raise thresholds without understanding the cause.

No Ticket Progress

If a ticket does not progress, check assignment, role permissions, checklist state, required notes and completion status.

Configuration Changes

Configuration changes should be made deliberately and documented. In unclear cases, use a pilot period or Analytics review before releasing a new operating rule.

9. Safety Summary

ThermalDIAG supports monitoring, diagnostics and documentation. It does not replace plant safety systems, professional maintenance decisions or legally required assessments.

Users remain responsible for interpreting the data correctly, planning physical actions safely and releasing operational changes with the proper authority.