
AS Logger

CODESYS library for structured logging and alarm recording

Titel	AS Logger
Dokumenttyp	Product Datasheet
Version	2.2
Datum	17.08.2026
Autor	ASKS GmbH
Status	Released

No more unstructured text output. The AS Logger brings structured logging and alarm recording to your CODESYS application – decoupled, extensible and task-safe, from the console all the way to a central syslog server.

Product Description

Short Description

The AS Logger is a powerful library for structured logging and alarm recording in modern automation projects. Log events are created through a uniform fluent API, automatically enriched, filtered and dispatched to one or more output targets – without slowing down your application tasks.

Options

License type: Single license only.

Edition	Price
AS Logger	100 €

Details

The AS Logger replaces scattered text output with structured log events. Using a chainable fluent API, events are created with six log levels, key/value pairs and placeholder templates – readable for humans, parseable for machines.

Writing is fully decoupled from output: a log call simply places the event into an inbox and returns immediately. A dedicated worker task, created by the Logger itself, handles all processing – no cyclic call from the application is required. Even slow output targets never block your application tasks, keeping your cycle times deterministic.

Multiple output targets are served simultaneously – from the console and the visualization to a central syslog server. Each target has its own level, filters and enrichments, and open interfaces allow custom sinks, decorators and filters to be added without touching the core.

Key features include:

- Six log levels: TRACE, DEBUG, INFO, WARN, ERROR, FATAL
- Fluent API with structured key/value pairs and placeholder templates
- Decoupled writing via an inbox with a dedicated worker task
- Multiple simultaneous sinks: console, memory buffer (visualization), CODESYS logger, syslog (RFC 5424 over UDP)
- Automatic enrichment: machine/host context, source context
- Redaction of sensitive content before output
- Filters and log level configurable per sink; alarm logging with severities and alarm codes
- Open interfaces (ISink, IDecorator, ISinkFilter), task-safe output and built-in diagnostic counters

Benefits at a glance:

- Makes faults and events traceable
- Speeds up commissioning and troubleshooting

- Never blocks application tasks – cycle times remain deterministic
- Establishes consistent logging across all applications

Typical applications:

- Fault and alarm recording on machines
- Displaying recent events in the visualization
- Centrally collecting logs from multiple controllers via syslog
- Diagnostics during development and commissioning

The AS Logger transforms logging into a structured, decoupled process – creating transparency in your application without compromising its real-time behavior.

Product video: coming soon

Manufacturer

ASKS GmbH, Germany
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Software Delivery

The software is delivered via the CODESYS Store.

General Information

Property	Value
Supplier	ASKS GmbH
Support	support@as-ks.de · +49 7702 / 6089917
Article name	AS Logger
Article number	—
Distribution	CODESYS Store
Scope of delivery	.package file

System Requirements and Restrictions

Requirement	Value
Programming System	CODESYS Development System V3.5.22.30
Target System	CODESYS Control V3.5.22.30
Supported Platforms / Devices	No restriction

Additional Requirements	None
Licensing	Single Device Only
Restrictions	None
Required Accessory	None