

## SIMHMI Logger Historian Data Logging | Multi-Protocol | Report Generation

### PRODUCT OVERVIEW

# Industrial Historian & Data Logging Platform



Fig 1. SIMHMI Logger — Real-time Power Flow Dashboard

**SIMHMI Logger** is a high-performance industrial data logging and historian platform that captures, stores, and analyses electrical parameters from any industrial source. Designed for reliability and simplicity, it ensures your operational data is always available — from real-time monitoring to years of historical trend analysis.

OS SUPPORT  
**Windows 10+**

MIN RAM  
**8 GB (16 GB rec.)**

PROTOCOL  
**Modbus RTU/TCP**

DATABASE  
**SQLite Time-Series**

EXPORT  
**CSV / Excel**

MAX METERS  
**Up to 6**

### CAPABILITIES

## Key Features



#### Data Acquisition

Reads data at configurable intervals from meters and controllers, capturing all electrical parameters within a single unified platform.



#### Multi-Protocol Connectivity

Native Modbus RTU/TCP drivers with pre-configured register maps for faster deployment without manual address lookup.



#### Store & Forward

Local SQLite buffering ensures no data loss during network interruptions. Data syncs automatically when connectivity is restored.



#### Trend Analysis

Built-in charting with zoom, overlay, and statistical calculation tools — visualise days, weeks, or months of data instantly.



#### Trend Export

Export any historical dataset to CSV for use in Excel, SCADA systems, or custom reporting workflows.

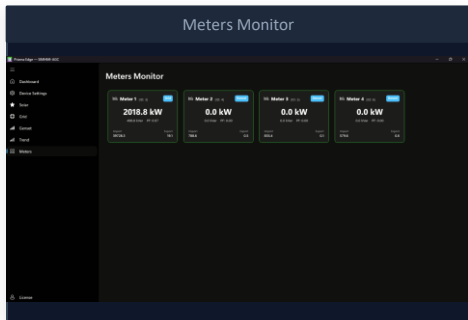


#### Lightweight & Efficient

Minimal footprint application — runs on any Windows-compatible hardware, including low-specification industrial PCs.

SOFTWARE INTERFACE

# Visualise, Monitor & Analyse Your Electrical Data



Real-time kW, kVar & PF per meter with Import/Export totals



Live power flow graph across Grid, Solar, Genset & Load



Date-range historical query with CSV export & table view

## Your Industrial Memory System

SIMHMI-Logger acts as the long-term memory of your operation. Every measurement captured, time-stamped to seconds accuracy, and stored in compressed SQLite format — allowing years of historical data to be queried in seconds. Whether for regulatory compliance, anomaly investigation, or predictive maintenance modelling, SIMHMI-Logger has you covered.

## Technical Specifications

PARAMETER	SPECIFICATION
Operating System	Windows 10 or later
Processor	Intel Core i3 or higher
RAM	8 GB minimum (16 GB recommended)
Storage	HDD or SSD (size depends on data retention period)
License	Software-based license (SW License)
I/O Protocol	Modbus RTU / Modbus TCP
Supported Devices	Energy meters, inverters, ASC solar controllers
Register Maps	Pre-configured for faster deployment
Database Engine	SQLite (built-in, embedded time-series)
Data Timestamp	Second-level accuracy
Logging Interval	Configurable (user-defined frequency)
Max Meters	Up to 6 meters (Logger3000 configuration)
Compatible Logger	Logger3000 (optional — up to 6 meters)
Compatible Controller	ASC150-Solar
Report Formats	CSV, Excel (.xlsx)
Trend Export	CSV export directly from Trend Explorer view

APPLICATIONS

## Industry Use Cases



### Energy Monitoring

Log metered energy data for utility billing, carbon footprint reporting, and operational efficiency benchmarking across multiple sources.



### Plant Electrical Performance

Capture per-source electrical parameters (P, Q, PF) for OEE analysis, power quality audits, and process performance reporting.



### Historical Trend Analysis

Fetch weeks or months of historical data to identify performance patterns, investigate anomalies, and predict equipment failures.



### Pre-Configured Deployment

Standardised software with pre-configured Modbus register maps — minimal setup time, compatible with Logger3000 and ASC150-Solar.

COMPATIBILITY

## Compatible Ecosystem



### Logger3000

Hardware logger with up to 6 meter inputs



### ASC150-Solar

Solar AGC controller with Modbus interface



### Energy Meters

Any Modbus RTU/TCP energy meter



### Excel / CSV

Direct export for reporting & analysis

DEPLOYMENT

## Never Lose Another Data Point

Deploy SIMHMI-Logger and gain complete historical visibility across your entire electrical operation.

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