proveris OEE

DATA SHEET

OEE and production monitoring software for manufacturing plants

OEE & PERFORMANCE

OEE	Availability × Performance × Quality, per plant and per machine
Availability	Running time / (running time + unplanned downtime)
Performance	Actual output / (ideal rate × running time), ideal rate per product
Quality	Good output / total output, scrap deducted
Reliability	MTBF and MTTR
Comparison	Best and worst machine, rejection rate, machine comparison
Energy	kWh per machine or plant meter, energy cost per kWh

PRODUCTION TRACKING

Products	Name, code, class and ideal rate · Excel import
Work orders	Target quantity, planned start / end; start, stop and finish per machine
Counting	Automatic (PLC counters) or manual entry per machine
Scrap	Entered from the operator kiosk
Traceability	By product and work order
Excel import / export	Products, work orders, downtime reasons, tags, users

SHIFTS

Shift definitions	Daily recurring shifts, including shifts that cross midnight
Shift monitoring	Target vs. actual, required rate, forecast, achievement %
Shift reports	Report by shift

PROVERIS AI PRODUCTION ANALYST

AI engine	Anthropic Claude (Opus and Sonnet models)
Questions	Live status, downtime, OEE and work orders in plain language
Assistance	Downtime reason suggestions, shift report writing, charts in chat
Forecasting	Holt-Winters with 80% confidence band, backtest accuracy (MAE / MAPE)
Work orders	On-time completion forecast

DOWNTIME & LOSS MANAGEMENT

Machine states	Working, downtime, alarm, offline
Daily timeline	24-hour machine state timeline in 6-minute segments
Downtime reasons	Planned / unplanned, availability impact, valid stations and equipment
Equipment	Equipment tree per machine
Reason assignment	Equipment → reason → explanation → approval

ALARMS

Alarm definitions	Per machine, 3 levels, conditions =, <, >
Alarm colours	10 colours
Acknowledgement	With operator message
Notifications	E-mail (SMTP) and SMS
Alarm log	Logging and Excel export

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VISUALIZATION

Dashboard	OEE gauges, hourly production, quality and defects, MTBF / MTTR, machine cards
Charts	Bar, line, pie, Pareto
Display	Full-screen mode, dashboard export as image
AR View	Machine QR codes, live OEE overlay on the camera image, daily machine PDF
Operator kiosk	Touch screens for dashboard, downtimes, work orders and scrap
Clients	Web browser and Android app
Languages & themes	English, Turkish, German, Russian, Chinese · 5 themes

DATA ACQUISITION

Protocols	Modbus TCP Client, Modbus TCP Server, Modbus RTU, Modbus RTU over TCP, MQTT Client, BACnet, Database (SQL), JavaScript, Internal
Modbus	Function codes 1–6 and 16, 11 data types
Serial ports	COM1–COM64, 300–256,000 baud
Machine tags	Counters, running signal and energy tags created automatically
Live data	Real-time streaming to the browser, tag writing from the UI

USERS & SECURITY

Roles	Per-page access: none, read, write · Manager and Operator roles
Machine access	Machines visible per user
Task management	Tasks assigned to users
Secure access	HTTPS

REPORTING

Report types	Standard, by shift, work orders, work order status, MTBF / MTTR, traceability, machine comparison
Time periods	Hourly, daily, weekly, monthly, yearly
Logs	Event log and tag log reports
Output formats	PDF, XLSX, CSV, print
Scheduled reports	Previous shift, day, week or month · e-mail and / or folder delivery

DEPLOYMENT & LICENSING

Server	Proveris Server engine and web server as Windows service
Database	PostgreSQL
Projects	Project export / import as a single archive
Licensing	Perpetual license, unlimited machines, web activation

SYSTEM REQUIREMENTS

Operating system	Windows, Linux
Processor	Minimum 2.4 GHz x64
Memory	Minimum 8 GB RAM · Recommended 16 GB or more
Disk	1 GB free space (plus historian data)
Database	PostgreSQL
Clients	Modern web browser · Android device for the mobile app

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