Harmonica

www.harmonica.kabanitech.com

MEASURE / UNDERSTAND / OPTIMIZE

From Energy Data to Industrial Intelligence.

Harmonica | Integrated Energy & Asset Intelligence Platform

A hardware, IoT and cloud platform that helps industries, campuses, utilities and infrastructure operators turn measurements data into visibility, action and long-term intelligence.



REAL ASSETS / CONNECTED DATA / PRACTICAL INSIGHTS

01

MEASURE

Advanced Power Quality & Harmonics Monitoring



Field-proven Harmonica analyser with harmonics, power quality and compatible metering support.

02

CONNECT

Cost-Effective Energy Monitoring & Data Acquisition



Integrate field instruments and reduce down time using Kabani edge secure, reliable IoT connectivity.

03

UNDERSTAND

Cloud Dashboards, Analytics & Reporting



Secure cloud platform with real-time dashboards, trends, alerts and audit-ready reports for faster, smarter decisions.

400+

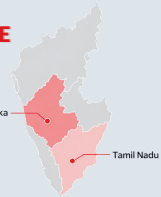
distribution transformers

field-tested and utilized across Karnataka and Tamil Nadu.

FIELD EXPERIENCE THAT BUILDS CONFIDENCE

Built on real measurement hardware, field engineering experience, and a growing cloud platform.

Harmonica has been deployed on 400+ distribution transformers across Karnataka and Tamil Nadu, helping utilities and institutions gain reliable visibility into real network conditions.



DELIVERING MEASURABLE OUTCOMES

Energy Visibility

Real-time and historical view of energy use, generation and losses.

Operational Efficiency

Detect issues early, reduce downtime and optimise operations.

Asset Intelligence

Power quality, harmonics and asset health insights for better planning.

Scalable Deployment

Modular, cost-effective and proven across diverse industrial and utility sites.

Kabani Tech #ideaFoundry

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ONE PLATFORM. MULTIPLE DEPLOYMENT PATHS.

From field measurements to cloud intelligence — Harmonica scales from a single machine to campuses, utilities and grid-connected assets.

INDUSTRY & MANUFACTURING
Equipment use, operating patterns and efficiency

ENERGY MANAGEMENT & AUDITS
Energy baselines, trends and audit evidence

CAMPUSES & INSTITUTIONS
Source, building and feeder-level visibility

UTILITIES & TRANSFORMER MONITORING
Transformer loading and power-quality insight

SOLUTION STRUCTURE

From field devices to actionable intelligence.

FIELD HARDWARE / COMPATIBLE METERS
Analysers, meters and sensors (electrical parameters)



EDGE CONNECTIVITY
RS485 / Modbus
Wi-Fi / 4G / Ethernet



HARMONICA CLOUD
Secure ingestion, processing and storage

DASHBOARDS, REPORTS & ALERTS
Real-time and historical insights



INTELLIGENCE ROADMAP / ACTION
Analytics, predictions and optimization

AVAILABLE TODAY

DEPLOY + MEASURE + GET INSIGHTS

- **Electrical measurements**
  Voltage, current, power, energy, PF and frequency
- **Harmonics & power quality**
  THD and detailed power-quality data (advanced configurations)
- **Local buffering & IoT connectivity**
  RS485 / Modbus, Wi-Fi, 4G and secure cloud upload
- **Cloud dashboards, reports & visibility**
  Operational dashboards, trends, alerts and exports

ROADMAP / IN DEVELOPMENT

MORE INTELLIGENCE AHEAD

- **Deeper asset analytics**
  Load profiles, utilisation, losses and benchmarking
- **Anomaly detection**
  Automatic detection of abnormal operation and events
- **Transformer & machine health intelligence**
  Health indicators, ageing trends and risk flags
- **AI-assisted optimisation**
  Recommendations for energy efficiency and demand management
- **Predictive maintenance workflows**
  From alerts to work orders and lifecycle planning

DESIGNED FOR

Multiple stakeholders. A common source of truth.

Industrialists
Reliable operations and lower energy cost

Policymakers
Data-driven planning and regulations

Investors
Transparent performance and impact

Startup ecosystem enablers
Platform for innovation and new use-cases

Technology partners
Integration and co-creation opportunities

Institutions
Sustainable, efficient and future-ready campuses

LET US BUILD SMARTER ENERGY SYSTEMS.

Open to pilot deployments, technology partnerships, OEM integration and research collaboration.

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