

MV900

New Era in Process Monitoring



Hybrid

AI

Hyper-Connectivity

ESG

Discover the New Process Monitoring System



Hybrid

New sensors and their different combination create strong synergy

- Force
- 3A
- E-meta
- PLC

AI

4M*, Electric, Environmental changes detected by AI

- Data driven
- Multi-modal learning
- Algorithm

Hyper-Connectivity

Whenever, Wherever
real time link

- Mobile alarm
- OTA**
- Cloud

ESG

Provide the carbon emissions
produced per unit of product

- E-meta
- Electric Monitoring Algorithm
- V, A, kWh, power factor

*4M: Man, Machine, Material, Method

**OTA: Over the Air

Feature

Easy

Flexible

Versatility



Advanced Algorithm

Automatically collects machine operating conditions and pressing force data to perform optimized monitoring.



Electric Monitoring

Monitors V (Voltage), A (Current), kWh (Energy), power factor, and more.



Product Management

• Register & Manage

Seamlessly adds and organizes product codes.

• Quick Access

Simply selects a code to instantly load the corresponding monitoring parameters.

• Generate Envelope Curve

Provides high-quality detection performance with an easy-to-use interface.



3A (Axis) Acceleration Monitoring

Monitors acceleration in X, Y, and Z axes in 3D. Anomaly detection technology for motors, transfers grippers, ram slides, tools, etc.



Power Consumption Monitoring

Provides analysis of carbon emissions and carbon footprint per product.



Force Trend Monitoring

Observes changes in monitoring data over time to ensure precise application and optimized performance.



IIoT for Industry 4.5

Acts as a gateway, connecting data from sensors to platforms like Machine365.Ai (Cloud), SmartPOP, FactoryView (MES).



Force Bar per Process

Shows peak force as a bar graph for each process step and helps improve processes by checking force balance.



OTA Update

With Machine365.Ai, upgrade to the latest functions and enhanced performance.



Force Management

Sets and manages maximum and minimum force standards.



Auto Setting

Analyzes signals during teaching and automatically sets tolerance AI-guided automatic parameter setting.



Partial Tolerance Zone

Uses different tolerances in parts of the envelope curve for more accurate monitoring and better productivity.



Alarm Log

Automatically saves monitoring records, allowing you to track detection history and frequency.



kN, Absolute Force

Calibrates pressing force as an absolute value and converts it into dynamic load.



Ghost Shift

Stops the machine automatically once the production target or operating time is reached.



Tool Resource Management

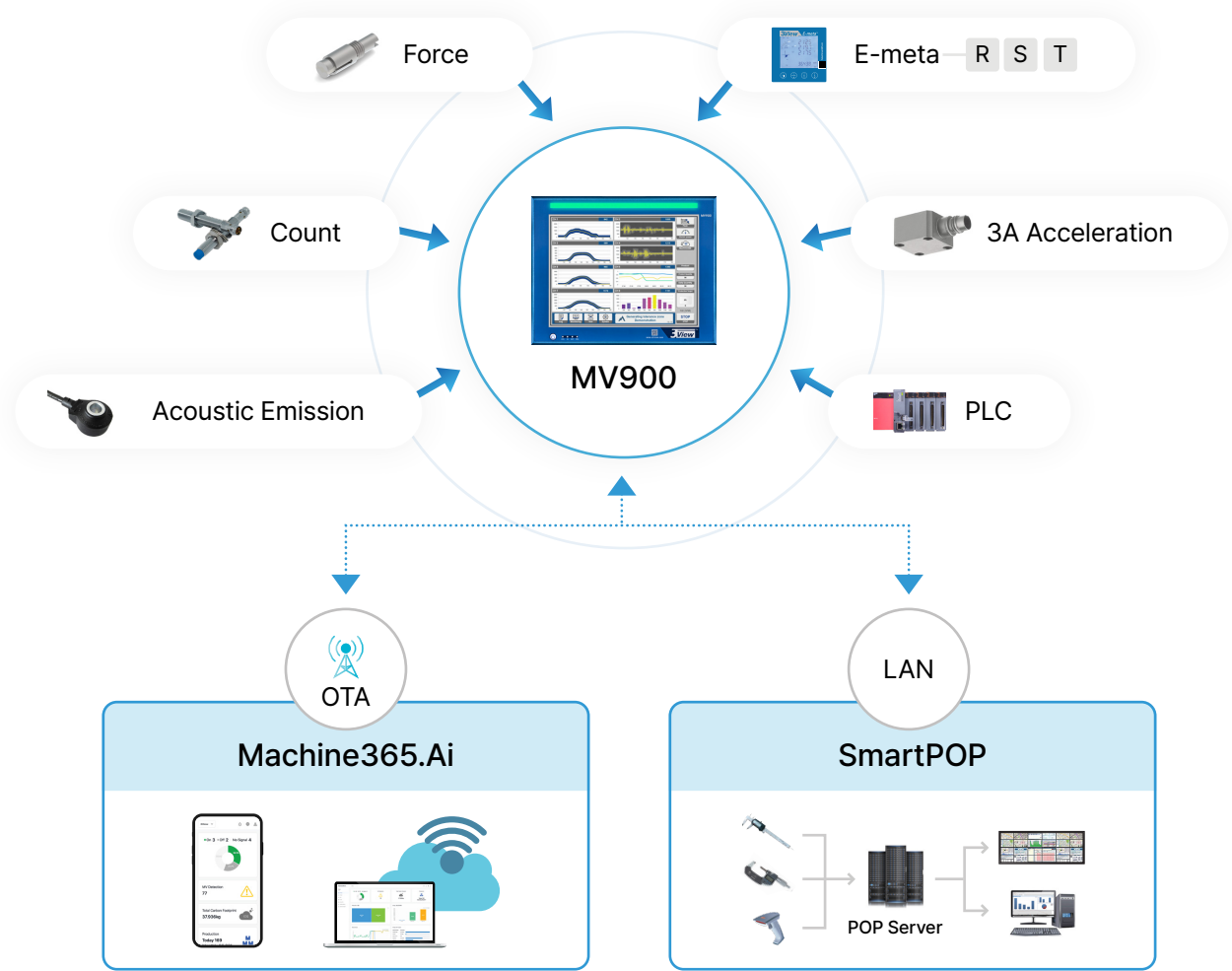
Keeps track of tool life and sends warning when it's time to replace them.



Run/Stop Chart

Provides real time equipment run/stop status. Can manage the operating rate of equipment.

System configuration & Network



Technical data

Model: MV900

Display	15" Color TFTLCD, Full touch I/F	Power supply	220/110V (Free volt)
Size(mm)	393×317×74 (WxHxD)	External Interface	USB 2.0 - 2 ports RS232C - 1 port Ethernet - 1 port Wireless LAN - Wifi 6E (802.11AX) DI4/DO6
No. of channels	8		
Sensor	Force, Proximity, E-meta, 3Axis Acceleration, Acoustic Emission, Rotary Encoder		

Specification can be changed without notice.



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