

MODEL 98019-EM

KEY FEATURES

- Real-time OEE control
- Early shutdown warnings through big data analysis
- Auto maintenance and calibration notifications
- Check device status in real time
- Easy integration of various devices
- Cloud Library

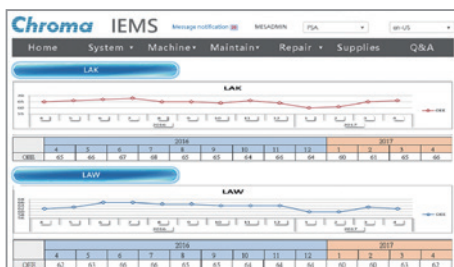
APPLICATIONS

- Equipment information management
- Equipment preventive maintenance and calibration
- Visual monitoring of machine status
- Maintenance calls and repair reports in the cloud
- Real-time management of spare parts
- Web operation for mobile devices
- Integrated asset management
- Management reports

INTELLIGENT EQUIPMENT MANAGEMENT SYSTEM MODEL 98019-EM

Instant and Precise OEE Control

The intuitive interface controls equipment reports in real time, such as OEE, utilization, and preventive maintenance reports. Users can instantly review and formulate improvements when necessary.



Early Shutdown Warning through Big Data Analysis

The system monitors equipment data, integrates and compares production information, and so finds the data models before equipment abnormalities occur. This prevents the production line from being stopped due to shutdown.

Automatic Notification for Maintenance and Calibration

Pre-program equipment maintenance or calibration schedules, the system will remind users of the itineraries in advance.

Check Device Status in Real Time

Query data on equipment maintenance and repair log whenever, the system grasps the equipment use and maintenance status in real time.

Status	Control number	Equipment name	Brand	Model	OEE	Maintenance staff	Scheduled maintenance date	Serial number
normal	A1083	Phonix	HITACHI	HP47	79%	Andy	2019/02/05	
normal	A1084	Reflow	CKD	VPS200L-V	77%	Andy	2019/02/23	
normal	A1085	Pick & Place	SIUCI	FX-300L	78%	Andy	2019/02/23	
normal	A1086	Pick & Place	SIUCI	KE-2000M	78%	Andy	2019/02/23	
normal	A1087	Reflow	LOYALBON	LS-200-N	79%	Andy	2019/02/23	
normal	A1088	ACE	OMRON	VT-RMS II	78%	Andy	2019/02/26	

Easily Integrate Various Kinds of Devices

Developers can return the machine's real-time status and test data to the iEMS platform system through OPC, MSMQ, or API.

Cloud Library

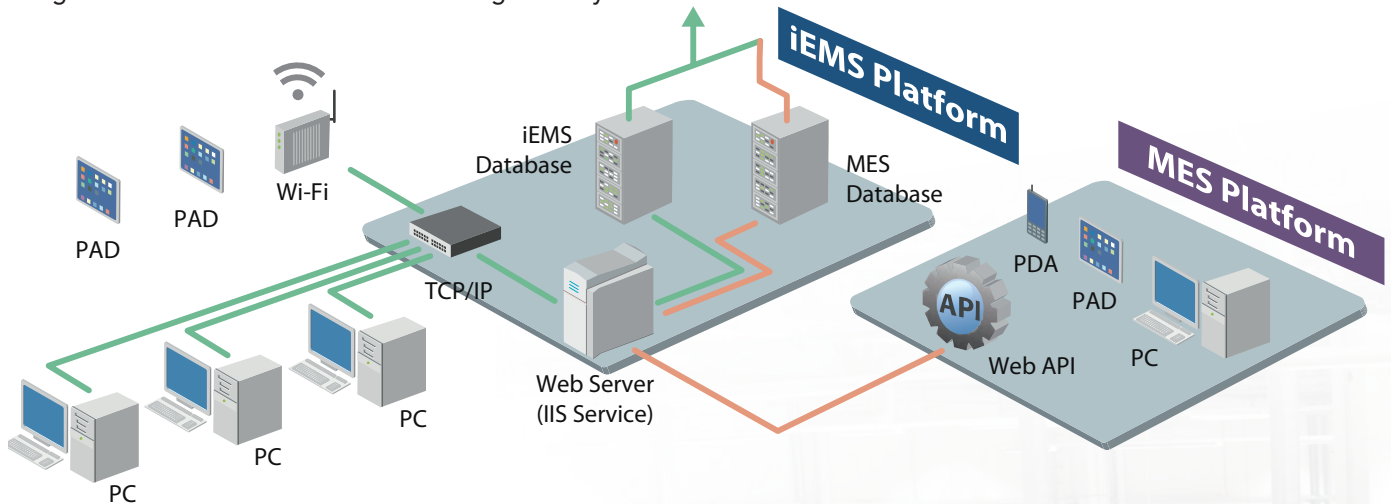
All repair call, maintenance, and machine status data is automatically uploaded to the database in the cloud, where users can grasp the complete equipment log.



Chroma iEMS Advantages

Open System Structure

Most equipment management systems are single module functions in the MES system and are closed systems, unable to integrate with other systems or even with other equipment. Chroma iEMS provides integration methods such as OPC, MSMQ, and Chroma API. The open interface can receive equipment data in real time and the open database can be integrated with the customer's asset management system.



Integrated Equipment Management and Status (OEE)

The majority of equipment management systems separate the equipment management function from the equipment status monitoring function, so users need to work across different interfaces or software programs simultaneously to handle both. Chroma iEMS integrates equipment management functions and status monitoring on one platform, making it easier for users to operate.



Join the Training Platform

Chroma iEMS connects to Chroma University, a training platform where you can watch online training videos for equipment maintenance, repair, calibration, and other operations. This greatly simplifies and shortens the training of your personnel.



iEMS Functions

Equipment Information Management

- Basic equipment information (factory data, user's manual)
- Maintenance record
- Maintenance details
- Repair history
- Equipment effectiveness (utilization, mobility, MTBF, MTTR)
- Equipment components replacement record
- Equipment borrow and return record
- Annual survey
- Maintenance schedule
- Equipment capability screening

Preventive Maintenance and Calibration

- Routine inspection
- Maintenance inventory
- Maintenance result
- Maintenance instruction
- Maintenance audit
- Maintenance result figure upload
- Maintenance order scheduling calculation
- Equipment maintenance plan
- Equipment maintenance SOP display



Maintenance Calls and Repair Reports in the Cloud

- System auto maintenance call
- Maintenance report
- Cloud Library
- Maintenance manual
- Maintenance record
- Maintenance notices
- Abnormal figure upload
- Equipment abnormal traceability

Visual Equipment Monitoring

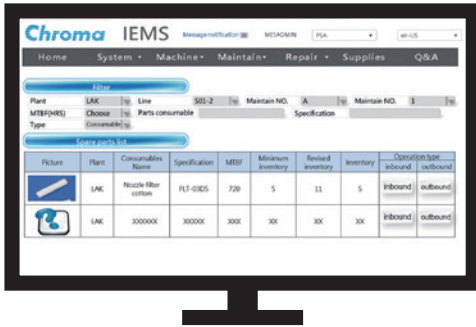
- Equipment management report
- Idle equipment report
- Overall Equipment Effectiveness (OEE)
- Equipment utilization rate
- Equipment mobility
- Availability data trends
- Capability data trends
- MTBF data trends
- MTTR data trends



iEMS Functions

Real-time Management of Consumable Usage

- Equipment components replacement record
- Spare parts list
- Material receipt entry
- Material inventory display
- Spare parts supply notification
- Spare parts management



Integrated Asset Management

Includes automatic update of equipment depository, equipment lists according to the internal asset management system of your company, and attribute data synchronization.



Management Reports and Web Operation for Mobile Devices

- Interface message notification
- E-mail instant notification
- Factory management report
- TS management form
- Equipment cause of failure analysis
- Consumables usage
- Present equipment status
- Equipment utilization analysis
- Maintenance efficiency analysis



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