



OPERA PREDICTIVE

FIELD system



DESCRIPTION

OPERA PREDICTIVE is an **industrial web-based predictive analytics app**, developed for FIELD system platform. The application is perfectly **integrated with FIELD system**, in order to automatically gather in real time devices critical parameters (vibrations, temperatures, pressures etc.) that could generate machine failures and/or produce scraps or defective products. OPERA PREDICTIVE uses the emerging technologies and trends in the manufacturing sector (**IoT, Big Data, AI, ML, Cloud Neural Networks**) to implement **predictive techniques on the device** (CNCs, robots or other production equipment).

The app enables to continuously monitor equipment critical variables and, using cloud neural networks, allows to identify and predict anomalous deviations that could result in a machine failure (**predictive maintenance**) or in a defected product (**predictive quality**). The app allows to visualise in **web-based dashboard** the device critical parameters and for each variable a dedicated dynamic and intuitive graph is accessible to the user. Marked by different colours, **real time and predictive values over time** are displayed, including the calculation of the **prediction reliability**. Operators, maintenance or quality managers are **immediately notified** about predictions that show a variable going out of limits, so that they can take actions before the issue arises.

OPERA PREDICTIVE OEE is perfectly integrated into the complete **OPERA MES Platform**, international MES to implement the "**Digital & Smart Factory 4.0**", across any company size, connecting any device and managing any operation (Production, Material, Quality, Maintenance). OPERA MES is a product by Open Data Srl.

KEY BENEFITS

- Gain visibility into device conditions and its health status
- Minimise unplanned machine downtimes and failures
- Improve equipment uptime & efficiency
- Reduce maintenance costs (do maintenance only when needed!)
- Improve product quality & customer satisfaction
- Proactive informed decision making

KEY FEATURES

- **Integration with FIELD system**
Gather machine critical parameters in real time
- **Condition Monitoring**
Continuously view in real time equipment status and conditions
- **Cloud Neural Networks & Predictive Formulas**
Diagnose deviations and anomalous behaviour using AI-driven techniques
- **Dynamic & Intuitive Dashboard for rapid comprehension of the issues**
For each variable, display real time values and upcoming predictive ones, by also indicating the percentage of prediction reliability
- **Predictive Maintenance**
Predict deviations that affect the health status of a machine and carry out maintenance tasks before the failure occur
- **Predictive Quality**
Predict deviations in specific process parameters that affect product quality and implement concrete quality measures
- **Visualisation & Management of Alarms & Notifications**
Visualise alarm messages on the machine dashboard & send them to third party mobile messaging apps (e.g. Telegram)
- **Native integration into OPERA MES Platform**
Implement Industry 4.0 Projects

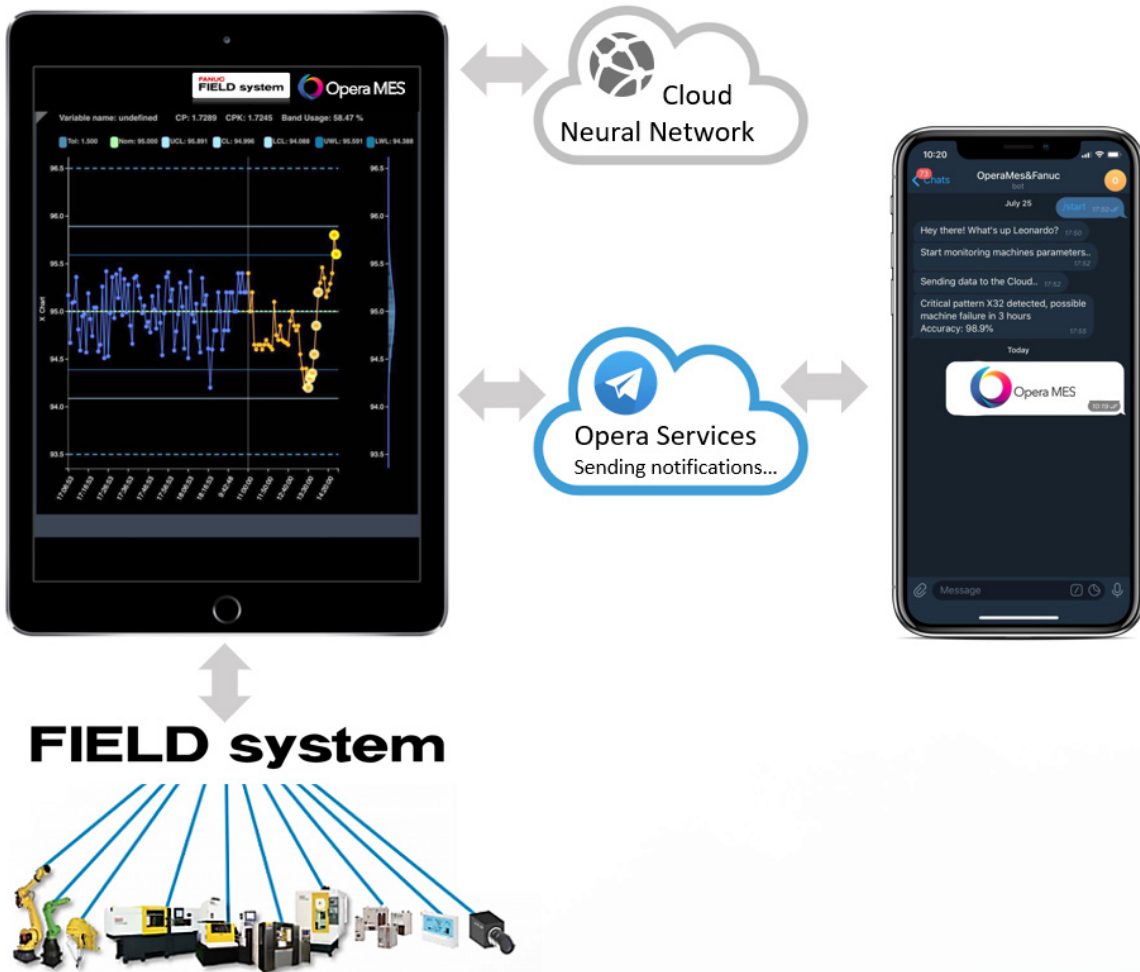


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APP PREVIEW



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