

## OPERA PREDICTIVE



### DESCRIPTION

OPERA PREDICTIVE APP is an **industrial web-based predictive analytics app**, developed for FANUC FIELD system platform.

The application is perfectly **integrated with FANUC 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 APP 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 allows to visualise in **one single 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 APP 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).

### KEY BENEFITS

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

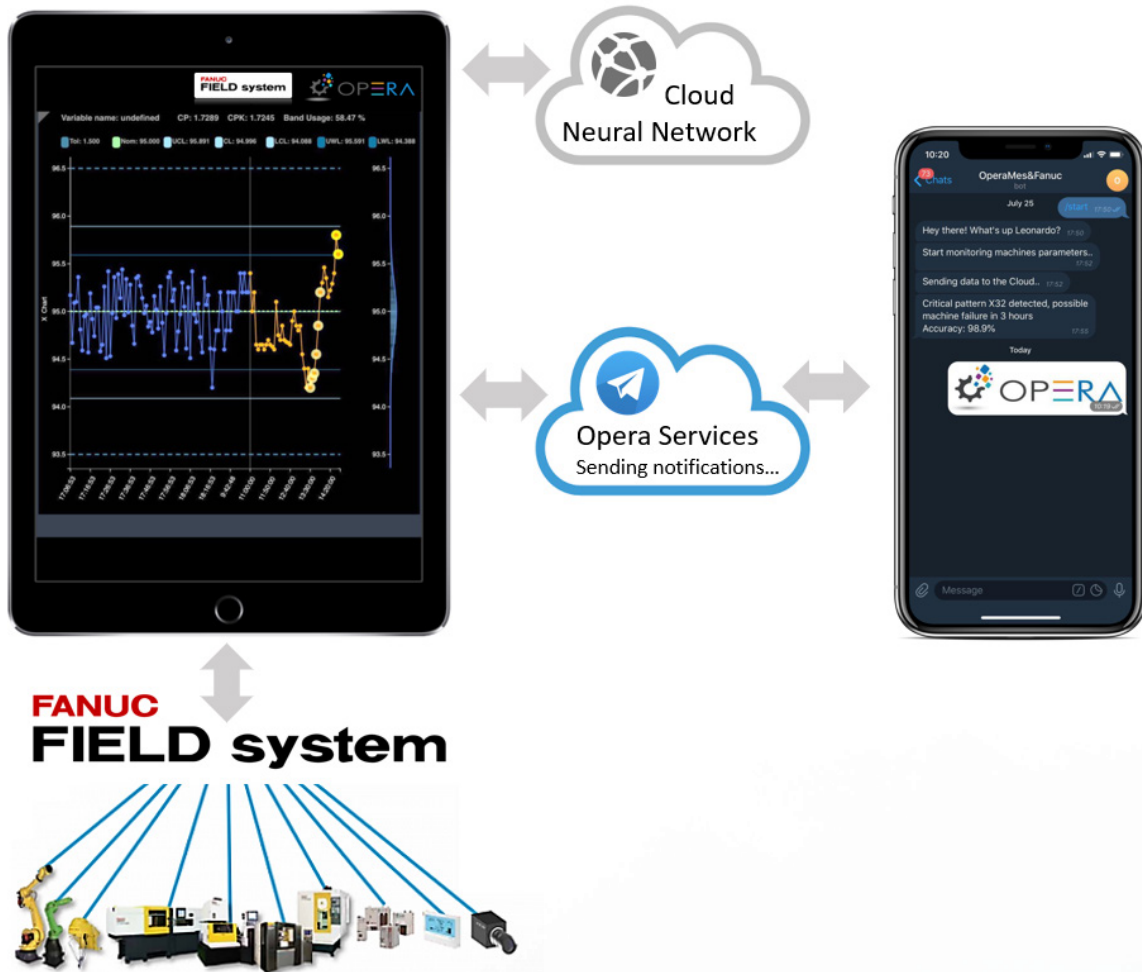
### KEY FEATURES

- **Integration with FANUC 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 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



### Contact Opera:

-  +39(0) 051 860402
-  sales@operames.it
-  www.operames.it



WWW.FANUC.EU