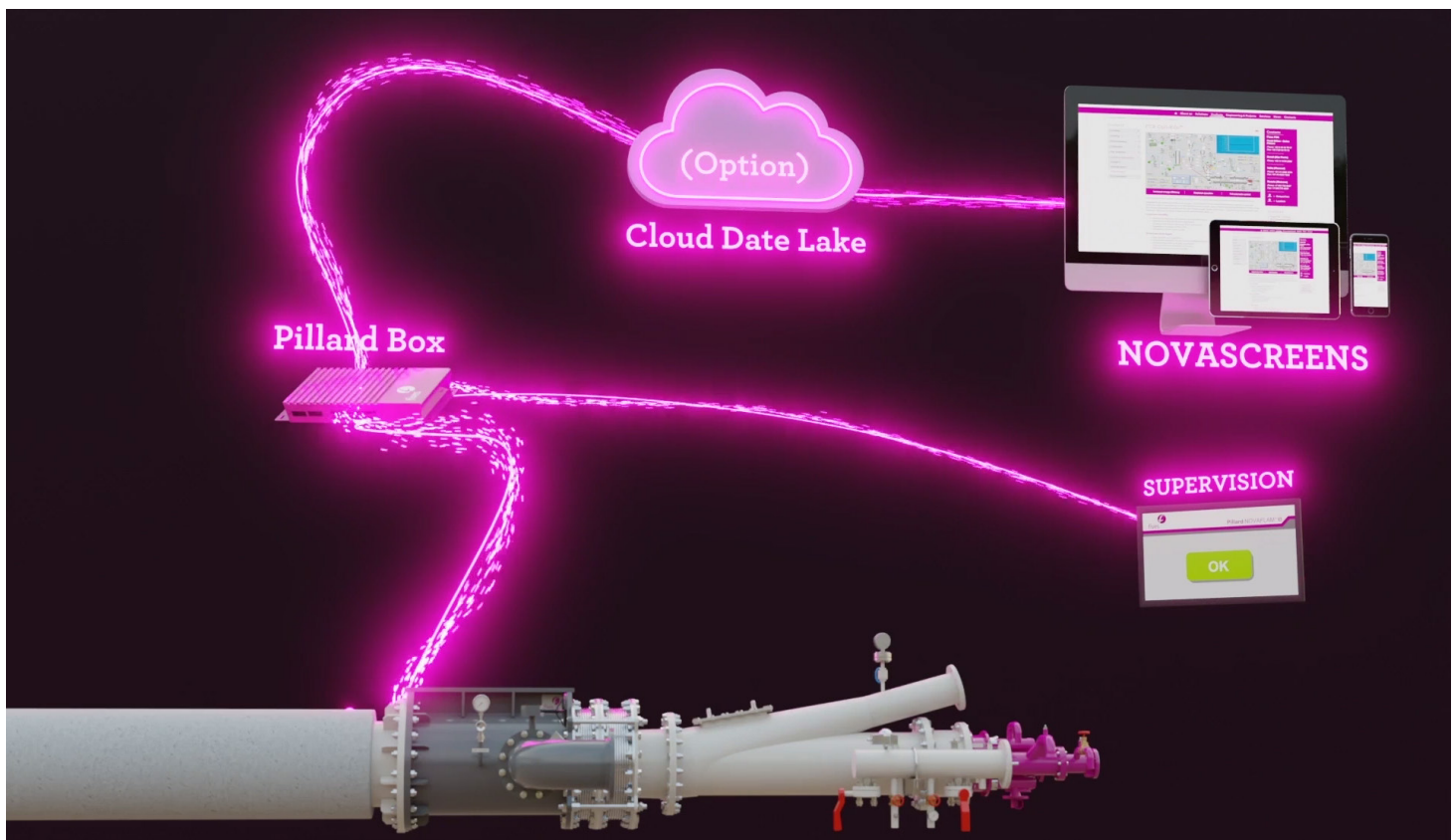


Pillard NOVASMART™

For cement/mineral rotary kiln burners



An effective tool to manage your production and thermal efficiency in real time

- Real-time monitoring system to optimize the thermal efficiency of the installation
- Monitoring, detection, diagnosis and analysis of the process and maintenance parameters
- Alert and alarm management, breakdown prevention, troubleshooting diagnosis
- 4.0 tool: Installation monitoring from any device (PC, smartphone, tablet)

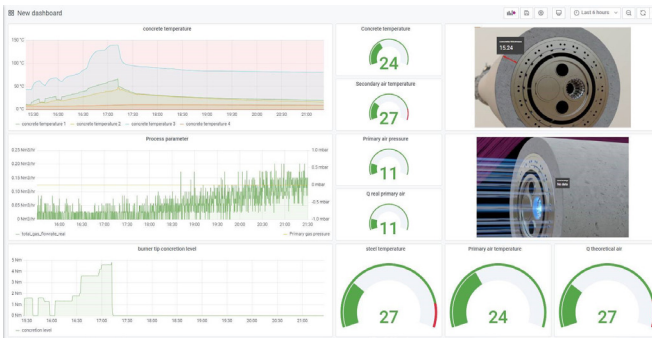
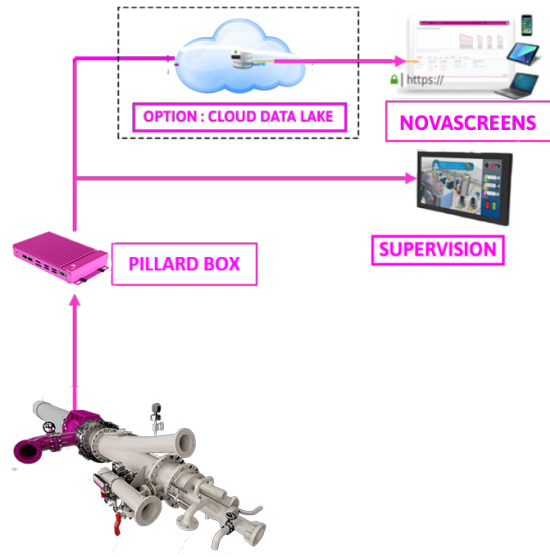
Pillard NOVASMART™: a digital tool to monitor and optimize your cement/mineral rotary kiln burners

The Pillard NOVASMART™ tool continuously calculates the burner position in your rotary kiln for cement/minerals, as well as its operational process data status in real time to optimize its operation. All data and statistics are transferred to be analyzed by our experts. This service also alerts the user in real time of threshold overruns and any issues. Alarms are customizable depending on the customer's needs.

PILLARD NOVASMART™ INCLUDES

- A full package of onboard sensors on the burner connected to a junction box ("sensor box")
- A digital gateway "Pillard box" for data acquisition and exportation to the monitoring system (PC, tablet or smartphone)
- A full set of customized dashboards "Novascreens" accessible with Edge, on a monitoring screen (via a webpage) or with the Cloud (*) (PC, tablet or smartphone) through a connection with the "Pillard Box" via Wifi or 4G.

(*) Cloud subscription required



DASHBOARD FOR BURNER PARAMETERS

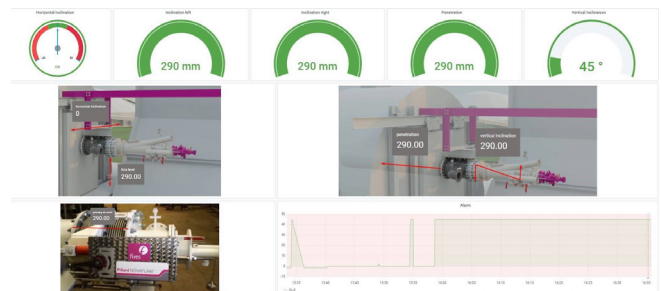
- Accumulated values display in real time
- History of accumulated values available over a one-year rolling period
- Relevant statistical calculation for various parameters
- Relevant periodic reports
- Comparison of parameters to reference values and thresholds with explicit alarms in case of overrun

THERMAL EFFICIENCY AND OPERATING OPTIMIZATION OF THE BURNER

- Process parameter calculations and measurements in real time (primary air flow...)
- Burner positioning before start-up (laser alignment solution)
- Real-time monitoring of geometric parameters (vertical, horizontal position, penetration, inclination...)

DETECTION OF IRREGULARITIES AND BREAKDOWN PREVENTION

- Real-time measuring of maintenance and safety parameters (refractory/burner tip temperature...)



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