

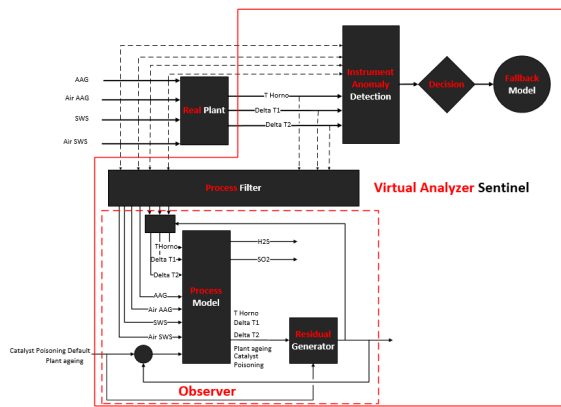


## Data Sheet

S-AVS-1401-07-002 Rev.0

The Sentinel virtual tail gas analyzer (**TailGasVASentinel**) is a real-time, modular and asynchronous web service to monitor the performance of Claus Plants based on the  $(H_2S) / [SO_2]_{-2}$  ratio in the tail gas.

The core of the system is composed as follows:



## Resume

- User control.
- Trends in real time.
- Historical.
- Alarm management.
- Summary of events.
- Human-machine interface.
- Visualization of KPI's.
- Settings.
- Reports.

## Typical Applications

- Monitoreo relación  $H_2S/SO_2$  en el gas de cola de la planta Claus.
- Monitoreo de la demanda de aire.

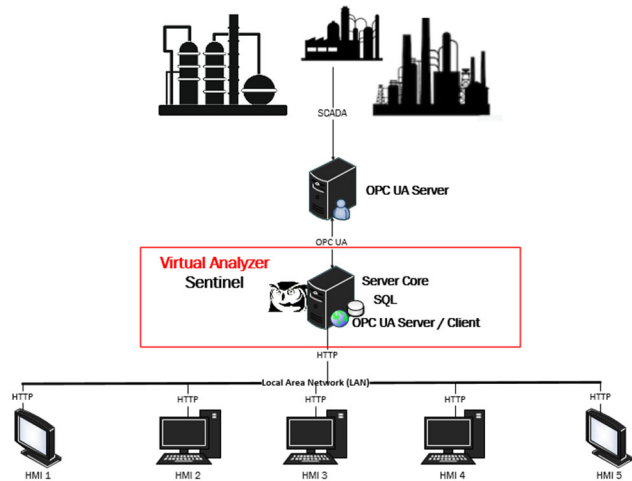
## Technical Specifications

The system has been tested in Windows environments with 6 GB core i3, i5, 2.1 GHz, 3.2 GHz and 2.1 GHz processors, and 4 GB of RAM and has worked correctly. Therefore, the minimum requirements are.

Item	Description
Processor	Core i3
Memory Ram	4 GB
Cores for processor	1 Nucleo
Speed de Processor	2.1 GHz

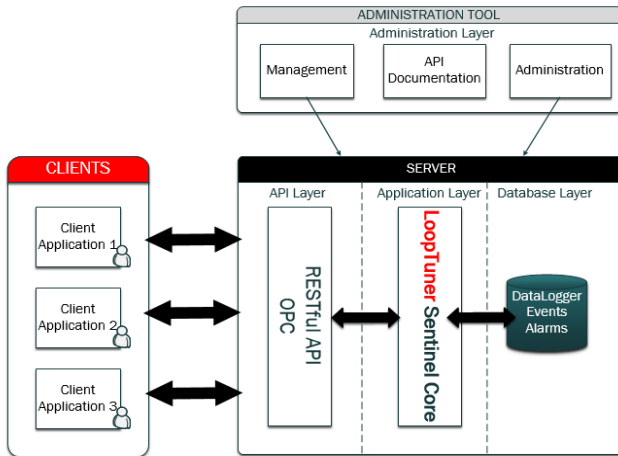
## Communications

The following is the hardware architecture of the system.





Regarding the software architecture, the diagram below shows said architecture.



### Security

TailGasVASentinel is based on the HTTPS security protocol, which allows the transfer of information through the network in a secure manner, using information encryption layers that allow customers to have their information on the network without it being exposed to potential spy or hacker.

On the other hand, TailGasVASentinel has a user control system that will block actions that are not allowed depending on the credentials that the user.

### Warranty

This device is warranted for two (2) years against defects in materials and workmanship. The warranty is invalidated if the device is used in conditions other than those indicated in this data sheet and other documentation related to the device.

During the warranty period, the manufacturer replaces or repairs all its products that do not work due to production faults free of charge.

The risks and costs of transport and packaging, as well as other contingencies related to the return of the product to the manufacturer, are assumed by the customer.

The warranty period is 24 months from the time the product is shipped to the customer.

### Order Information and Assistance

Information of order:

Part	Description
XX-XX	PC de servicio XX-TailGasVASentinel-XX

### Support

MCL Control USA, inc.

E-mail: nmata@mclcontrol.com

jcalderon@mclcontrol.com