INVAP stack monitor for the STAX project

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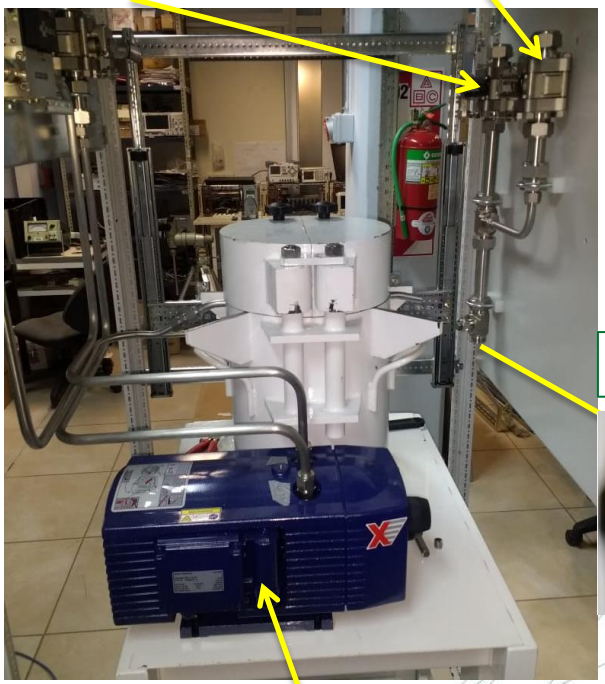
INVAP is finishing the manufacturing of a stack monitor for the STAX (Source Term Analysis of Xenon) project. The monitor is based on a HPGe detector with customized detection geometry and meets the Hardware and Software requirements defined by STAX project.

In this work the monitor hardware and software are presented with their individual characteristics.

Hardware

The sampling system was mounted according to the design drawings



Hardware

Measuring Chamber and Shielding

Lead shielding

Pressure sensor

Gas like calibrating source

When activities at INVAP are resumed, the system assembly will be finished, tested and the calibration of the system will be performed

Hardware

INDUSTRIAL
PANEL PC

ORTEC
GEM10-ICS

DSPEC 50

Ethernet

IO
MODULES

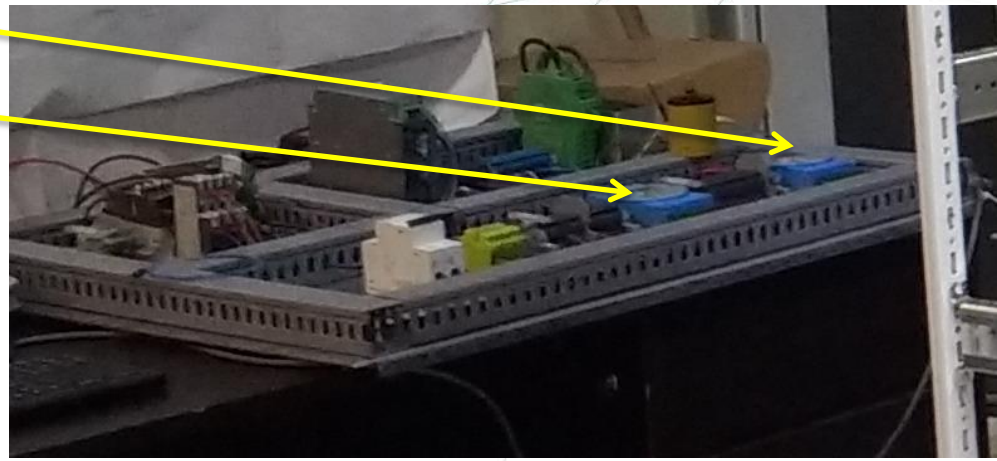
Digital I/O

Analog
Input

SAMPLING
PUMP

Flow Meter

Electrical Board already mounted

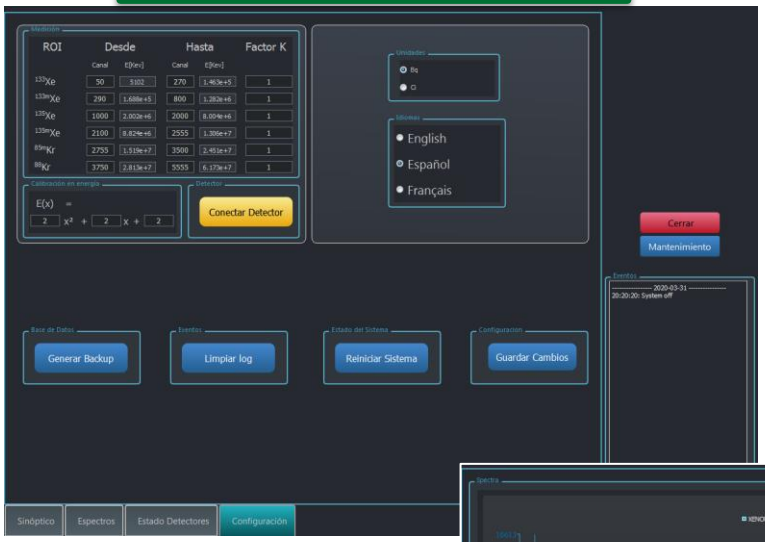


Software

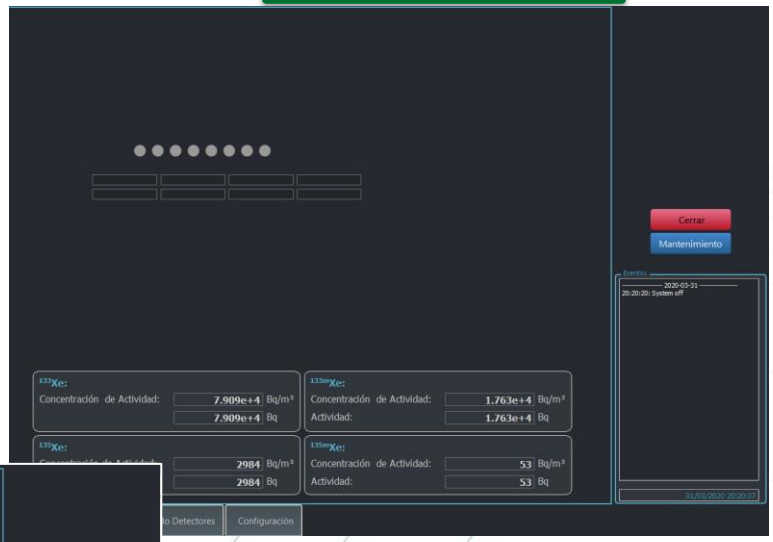
Graphical User Interface (AEMi SW)

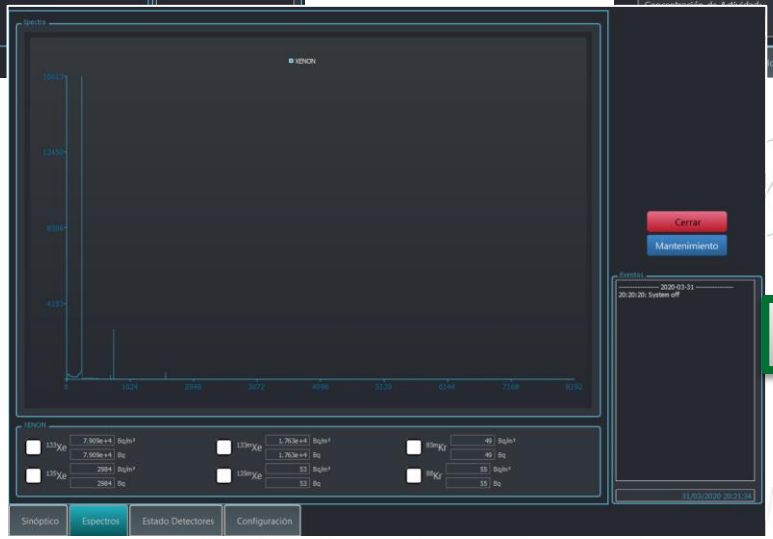
Software development is underway, and will be finished when activities at INVAP are resumed. The figures show the status of the different SW screens at March 18th.

Configuration Screen



Release data





Spectrum analysis