

## **PROGRESS REPORT ON THE CONTROL SYSTEM OF THE MVINIS ION SOURCE**

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The mVINIS Ion Source is a part of the TESLA Accelerator Installation facility in the VINÇA Institute. It is an electron cyclotron resonance ion source that can deliver multiply charged ions either to the low energy experimental channels or inject the ions into the VINCY Cyclotron for further acceleration. This paper describes completion of the mVINIS control on the Honeywell Alcont 3000x - main control system of the TESLA facility. Implementation of control functions required installation of specially designed local controllers in order to optimize communication with microwave generator and two main power supplies. Complete control of mVINIS was performed via touch screen operator console, through five control screens. Recording of the ion beam spectrum was done on separate PC computer coupled to the Honeywell system, enabling better graphics resolution and additional comfort in processing and analysis of the spectrum.