

## **Interfacing of SIP Controller with Micro Controller**

Prateek Gupta

Shweta Choubey

*Abstract* – SIP power Supplies being used are linear type. The existing design is overrated, display is LED based and communication interface is not available. An effort is made to optimize the design of power circuit and also interface the supply with microcontroller. By doing this, on one side, considerable reduction in weight and volume of the supply is achieved and on the other side, it is now possible to access the power supply remotely through PC with convenience and speed, over current trip capability is built-in and the display is made intelligent, LCD type. It is now possible to simultaneously display voltage and pressure/current in the whole range without any manual switching and also over current trip status.

*Keywords*– Sputter Ion Pump (SIP), LCD, LED.

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