

AI4S NG 915 MHz AUTOMATIC 4 STUBS TUNER

AI4S is an automatic impedance tuner, equipped with 4 tuning stubs, impedance sensors, and an electronic control system. All the components are integrated in a standard waveguide. As soon as the generator delivers microwaves, the **auto tuner system** matches instantaneously the load and permanently maintains the reflected power at a low level.

The tuner is specially designed with an efficient water-cooling system for high power applications, up to 100 kW.

SAIREM's **exclusive determinist tuner** adapts impedance automatically and much faster than the successive approximation technology often used.



MAIN APPLICATIONS

PLASMA APPLICATIONS

- PECVD Lab grown diamonds
- Any plasma application, particularly when change in operating conditions is requested

INDUSTRIAL APPLICATIONS

- All industrial applications requiring an impedance tuner

LABORATORY APPLICATIONS

- All the monomode application requiring an impedance tuner

KEY BENEFITS

TECHNOLOGY

- Auto tuner technology

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REMOTE CONTROL

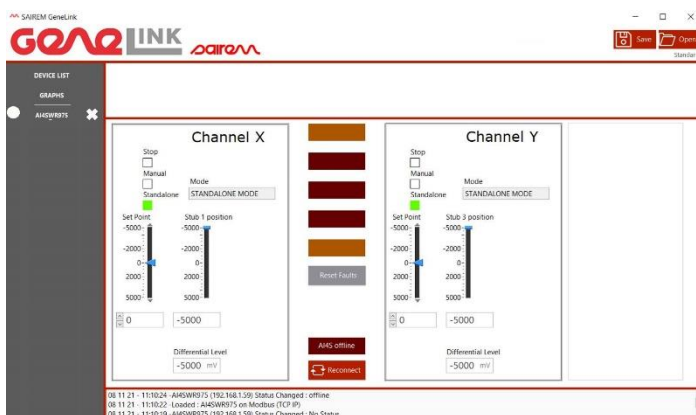
The AI4S automatic 4-stub tuner works in automatic mode if supplied with 24 V DC. The standard remote-control board is Modbus on RS232.

For additional manual control mode, for example to start at a specific stub position, several options are proposed:

1. Control using your own LabView program via Modbus on RS232 remote control (standard version)
2. Control using a PLC via PROFIBUS or CanOpen or Modbus Ethernet remote control
3. Control using SAIREM AI4S software which allows to switch between automatic and manual control of the impedance sensors at the click of a button. Another possibility is to record and export the position of sensors vs. time; for example, during change of operating condition.
4. Control using SAIREM CBA AI4S, consists of a 19 " 5 U control rack with integrated touch screen and 24 V DC power supply



Control of AI4S using CBA AI4S



Control of AI4S using Genelink software

To get the complete data sheet :

- full specifications
- technical drawings

CONTACT US !

