

ACT*i*VaD

Automated Control Technology in Vacuum Deposition



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'21st Century'
Automation

ACT_iVaD

Automated Control Technology in Vacuum Deposition

ACT_iVaD has been created to reduce the impact of the main variable in vacuum deposition – the operator – by acting as a control interface which is both user and machine-friendly for today's complex vacuum systems and processes. Real-time reaction to process information allows efficient vacuum process management.

✓ Easy to use

Data is presented in an easy-to-read format on a large, flat touchscreen monitor that also simplifies parameter setting. The PC/PLC-based system has many advantages over predecessor controllers, offering optimal and repeatable processes.

✓ Modular

Every deposition system is different as are customer requirements. The modular nature of ACT_iVaD and associated systems enable Thin Film Solutions to cater for any pumping and deposition system configuration.

Future system upgrade is easily accommodated with ACT_iVaD.

✓ Customisable

The power behind our controller lies in the interface – the exchange point between operator and machine. Both need information to run efficiently. For the operator this is presented in a user-friendly manner. The familiar analogue vacuum gauge is reproduced on screen in addition to digital readouts.

Other information is presented via bar or dial gauges, as well as digital readouts, and show the full range of vacuum and process parameters - pressure, temperature, voltage, current, water flow, deposition rates and so on. Simulated LEDs also indicate the status of different systems, with ● for on or ready and ● for off.

Trend analysis of vacuum/process parameters is possible in real-time.

Vacuum/process settings are achieved via the touchscreen system or pull-out keyboard and trackerball. This is done using the virtual button controls and dialog boxes.

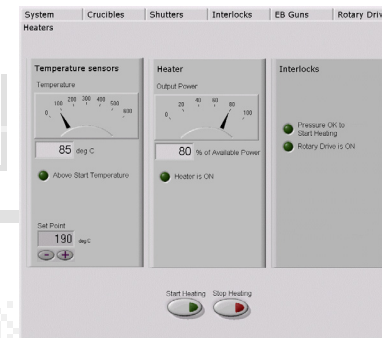
✓ OEM Sub-System Integration

ACT_iVaD is not a controller limited to use with only Thin Film Solutions sub-systems; full integration of OEM equipment is achievable. Examples include the Inficon IC/5 Deposition Controller and Transpector RGA, Temescal and AP&T electron beam gun deposition sources, MKS optical monitor and the Commonwealth Ion source.

✓ Industry-standard

ACT_iVaD runs under industry-standard Microsoft™ operating systems. Remote access via a modem is standard, with future PC/PLC technology upgrade compatibility.

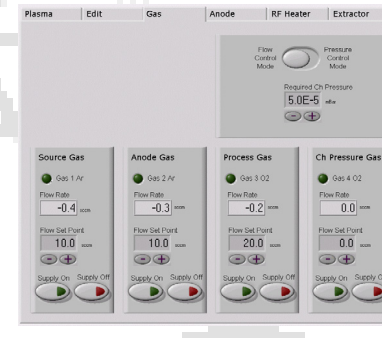
✓ Thin Film Solutions listens to its customers and designs to your needs



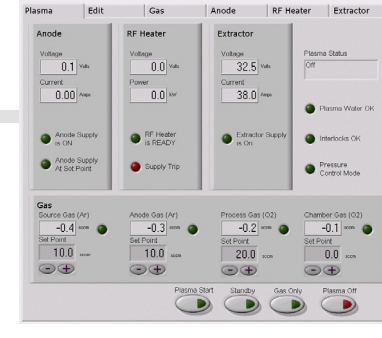
Substrate Heaters



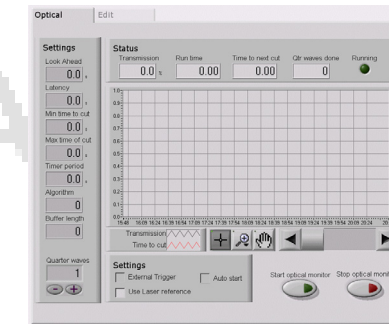
Electron Beam Guns



Gas Flow



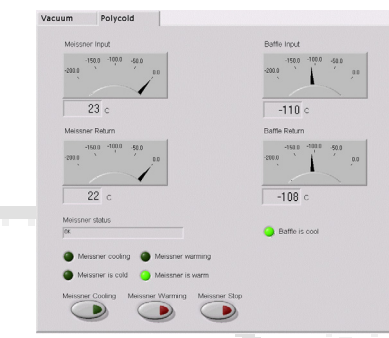
Plasma Source Monitoring



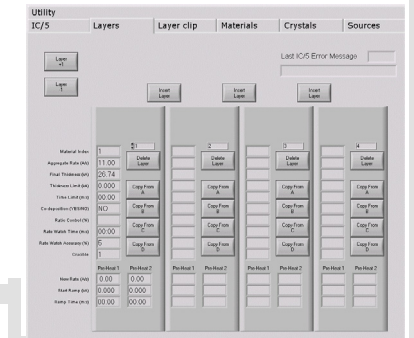
Optical Monitoring



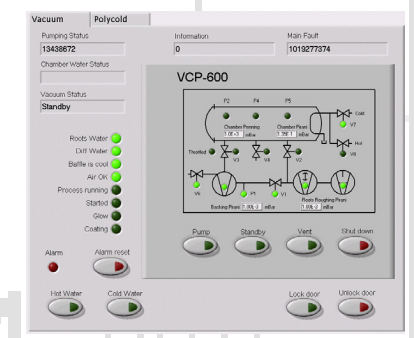
Simple Touchscreen Operation



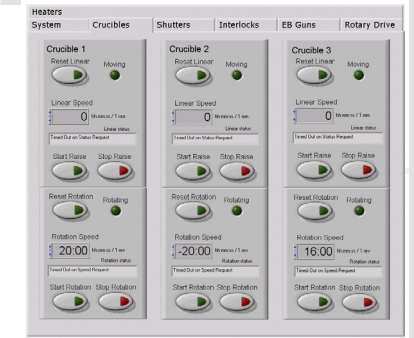
Polycold Remote Control



IC/5 Parameters



Pumps & Valves



EB Gun Crucible Lift



Shutters