

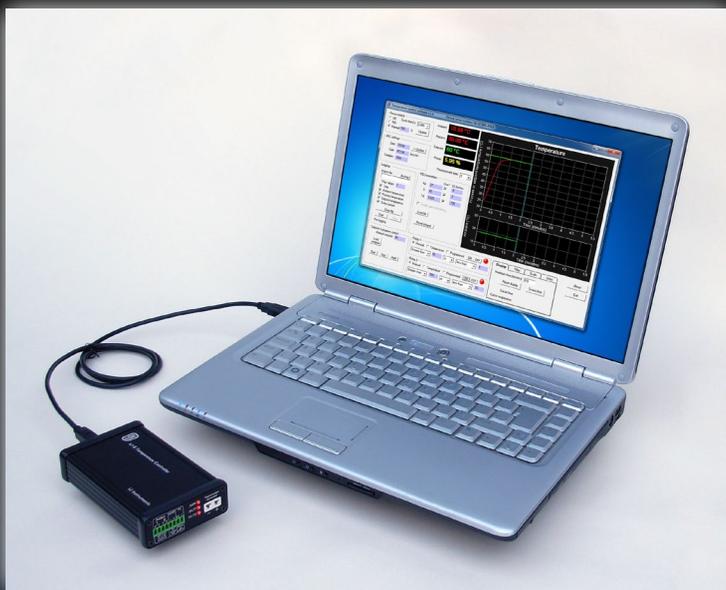
IJ-6 Software-based PID temperature controller

User-friendly control

Turn any Windows® computer into a fully-featured PID temperature controller!

Unlike most PID temperature controllers, where all configuration is done using the front-panel buttons, the IJ-6 software-based PID temperature controller allows the user to configure **everything** through an easy-to-use software interface.

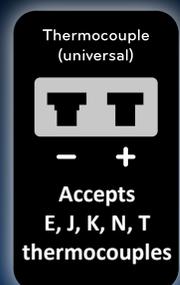
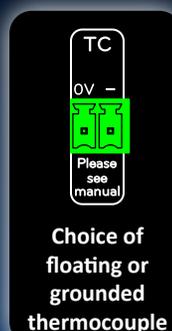
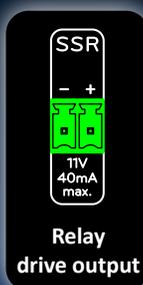
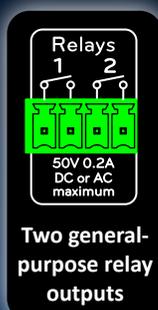
Since all control is performed in software, rather than hardware, this results in greatly increased versatility and ease of use. Software features include graphical temperature display, file logging, gain scheduling, relay control and programmable temperature profiles with unlimited segments.



Hardware features & specifications:

- USB powered
- Accepts thermocouple types E, J, K, N, T via mini socket
- Measurement range -200°C to +1300°C (depending on thermocouple)
- Resolution 0.03°C to 0.06°C
- Cold-junction temperature measurement to $\pm 0.03^\circ\text{C}$
- Variable duty cycle output for SSR drive (11V 40mA max.)
- Two general-purpose SSR outputs (50V 0.2A max.)
- Cycle time 1s (time between successive PID cycles)
- Full user manual with PID theory, tuning and examples of hardware connections

Connectors and indicators:



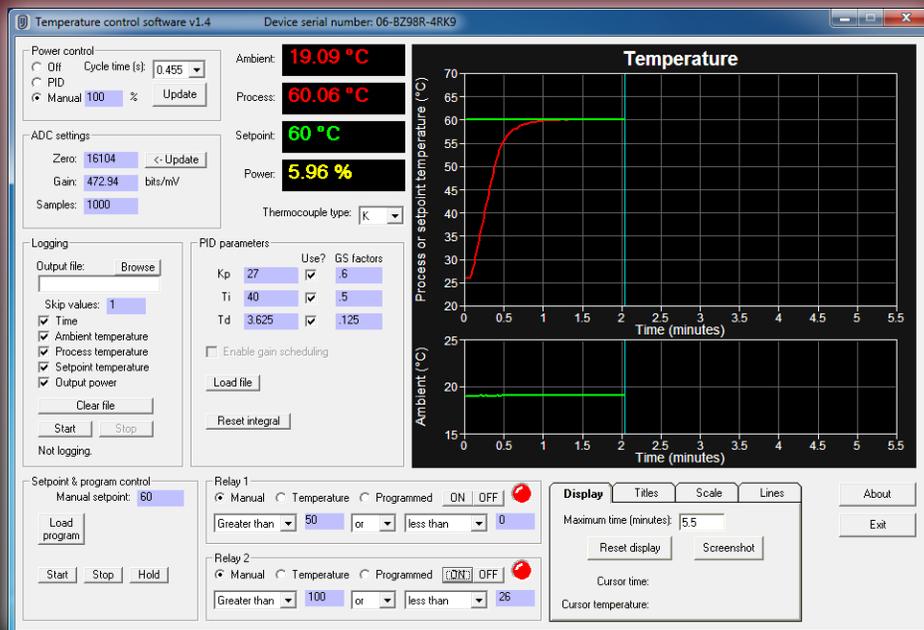
Turn over for software details

Software

The included control software (free to download from <http://www.eyejayinstruments.com>) provides an easy-to-use interface with access to all of the IJ-6 controller's features. The software has been tested on Windows® XP, Vista and 7.

Software features:

- Manual or PID power control
- File logging of all parameters (time, temperature, power)
- Graphical temperature display
- Ability to change PID parameters "on the fly" with gain scheduling
- Manual or programmed setpoint control
- Programmable temperature profiles with unlimited segments
- Cold-junction compensation using NIST algorithms
- Live display of temperatures and power
- Manual, temperature, or programmed control of both relay outputs



An easy introduction IJ-7 Demonstration Module

Never set up or used a PID controller before? Don't worry - the IJ-7 demonstration module allows you to explore the operation of the IJ-6 temperature controller. Operating from a 12V supply, it features a small thermal block, heating element, alarm buzzer and LED indicators for both heat and alarm.

Full examples are provided of initial setup, PID & manual control, gain scheduling, relay control, file logging and temperature profile programming.

Available for purchase along with the IJ-6 controller.

Ordering

You can order online instantly from <http://www.eyejayinstruments.com> using either PayPal or a credit card. Payments can also be made by cheque or bank transfer - just ask for details. Postage is FREE worldwide.



IJ Instruments Ltd.

Director Dr. Lindsay Robert Wilson. Registered in Scotland - company number 431535.

73 Harburn Road
West Calder
West Lothian
EH55 8AT, UK.

<http://www.eyejayinstruments.com>
sales@eyejayinstruments.com