

S 2010 Six channel Temperature Programmer/Controller

Stock Reference: 12010 (Modular version in a case)

Stock Reference: 514-310 (Panel mounted version)

Stork Introduces New S 2010

Continuing our policy of continuous development of our range of heat treatment equipment, Stork have recently introduced the S 2010 compact, six-channel temperature programmer/controller. The use of advanced technology makes the S 2010 the most cost effective six-channel programmer/controller available in the industry today.



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info.heattreatment@stork.com

The S 2010 is a compact, automatic heat treatment control unit that incorporates a microprocessor, heat treatment process, temperature profile, programmer with set point generator and six temperature controller channels.

These combine to accurately control the rate of temperature rise, hold temperature, hold time and rate of temperature fall of up to six independent control zones to follow a single programmed temperature control cycle to an accuracy of $\leq 0.25\%$ of full scale.

Standard features

- Numeric LED display of program set point temperature, hold time and actual process temperature of each control zone
- Proportional and integral temperature control
- Controls up to six control zones
- Electrically isolated inputs
- Compact and lightweight
- Ramp hold feature to ensure control zones do not fall behind the set point and to control temperature differential between control zones
- Can be programmed for ramp rates up to 999°C per hour, maximum temperature 1200°C and a maximum hold (soak) period of 99.99 hours

New features

- The use of digital rather than analogue control improves calibration stability and accuracy.

- Calibration is simple. One variable resistor each for zero and span adjustment allow for calibration of the whole unit. Individual channel calibration is not required
- Simple to program and operate with only one bank of four, data entry push switches to enter in all rate, temperature and time program values
- Proportional band and holdback values are adjustable, internally, from a bank of four micro switches. Holdback is the maximum allowable control channel temperature variance from set the point temperature. If the holdback point (typically 20°C from set point) is reached the program cycle is automatically put into hold until the low control channel temperature reaches a temperature, which is less than the holdback point. This ensures that temperature differentials are minimised and ensures all control channels reach the hold (soak) temperature
- In the event of mains failure the program is stored indefinitely until the mains supply is restored. This ability is achieved by the use of EEPROM technology, which negates the need for back up battery protection.

The S 2010 is available as a portable module in its own case for use with Stork's 6-output channel 50kVA or 70kVA power source units. Alternatively, the panel-mounted version can be incorporated into a self-contained heat treatment unit.