

TECHNICAL SPECIFICATION

Advantage 3 : Programmer / Controller

Stock Reference: 548-055

Stork Cooperheat's Advantage 3 temperature programmer / controller with its unique linkable control zone feature, is fast becoming the heat treatment industry standard. Providing the user with versatility, flexibility, cost savings and time. The Advantage 3 can be used individually or combined to control temperature differentials in a number of user selectable configurations. This control of temperature differential is an important requirement of international heat treatment codes and standards including ASME, BS, EN, ANSI & DIN.

The 'Advantage 3' is fitted as standard to Stork Cooperheat six channel Heat Treatment Modules. It can also be purchased separately as a spare or to upgrade any make or model heat treatment transformer, module or unit.

Specifically designed for localised heat treatment industry, the Advantage 3 reduces the number of standard six channel (single program) programmers normally required to heat treat work pieces requiring different heat treatment cycles and where only one standard six channel (single program) programmer is available, eliminates the need for multiple shift working to carry out several separate heat treatment processes for each heat treatment specification.

Features:

- User friendly operation and calibration
- Clear, illuminated digital displays showing actual and set point temperatures
- Plug in connections enable replacement in seconds
- Easy to program, operate and interrogate
- Complies with European LVD and EMC Directives and CE marked
- Operate and display in °C or °F with simple selection
- Display both set point temperature and actual work piece temperature
- Unique, linkable feature that allows the operator to carry out up to six heat treatment cycles simultaneously, whilst controlling temperature control zone differentials as required by international heat treatment codes and standards
- User controlled options to change proportional band and hold back point



Specifications
Power Input
<ul style="list-style-type: none"> • Supply Voltage : 110/115 V a.c. (230/240 V a.c. selectable) • Frequency : 50/60 Hz
Output
<ul style="list-style-type: none"> • Type : Relay switching • Maximum switchVoltage : 240 V a.c. • Maximum Current : 3 A
Signal Output
<ul style="list-style-type: none"> • Type : Thermocouple Type K (NiCr/NiAl) • Range : 0 to 1200°C (0 to 2200°F)
Accuracy
<ul style="list-style-type: none"> • Measurement : $\pm 0.3^{\circ}\text{C}$ (0.6°F) • Linearity : Better than $\pm 0.5^{\circ}\text{C}$ (1°F) at any point • Calibration : ± 1 display digit (Uncertainty : 1 display digit)
Control
<ul style="list-style-type: none"> • Proportional Band : $\pm 5^{\circ}\text{C}$ (10°F) / $\pm 10^{\circ}\text{C}$ (20°F) / $\pm 20^{\circ}\text{C}$ (40°F) / $\pm 40^{\circ}\text{C}$ (80°F) • Hold Back Setting : 10°C (20°F) / 20°C (40°F) / 40°C (80°F) / 60°C (120°F)
Programmable Values
<ul style="list-style-type: none"> • Start Temperature : $^{\circ}\text{C}$ or $^{\circ}\text{F}$ temperature uncontrolled up to • Rate of Rise : $^{\circ}\text{C}$ or $^{\circ}\text{F}$ per hour • Soak Temperature : $^{\circ}\text{C}$ or $^{\circ}\text{F}$ temperature to soak (hold) at • Soak Time : Time (hours:minutes) held at soak (hold) • Rate of Fall : $^{\circ}\text{C}$ or $^{\circ}\text{F}$ per hour • Off Temperature : $^{\circ}\text{C}$ or $^{\circ}\text{F}$ temperature uncontrolled down from
Environmental / Safety
<ul style="list-style-type: none"> • Normal Operating Temperature range : -10 to 55°C -20 to 80°C • Storage Temperature : 10 to 90% Relative Humidity • Ambient Humidity : EMC: EN 61326 : 1998 • CE Compliance : LVD: EN 61010-1 : 2001
Dimensions
<ul style="list-style-type: none"> • Case Style : DIN 43700 (96 x 48mm) • Front Bezel : 100 x 52mm ; 11mm depth • Depth Behind Panel : 120mm • Weight : 0.375kg • Enclosure IP rating : Front : IP 64 • Enclosure IP rating : Rear : IP 20 • Panel Cut-out : 45mm +0.6 x 92mm +0.8
Note: All values are nominal

