GlobeHeat Datasheet : Product Code GHT 3043

Product Description: P159TDA : Digital Mini Controller and Programmer

The P159TDA is a single channel, panel mounted, temperature controller and programmer which operates from a 110V supply ,which is used in Globe's range of heat treatment units which have a 110V instrument circuit.

Applications

For programming and controlling the post weld heat treatment and preheating of pipe welds and welded fabrications up to 1200°C

Features

- The program contains a start temperature, ramp up rate, hold temperature , hold time, ramp down rate and end temperature.
- Twin digital displays indicating the process value (PV) i.e. actual workpiece temperature and the setpoint value (SV) i.e. the target temperature of each point in the process
- Deviation alarm output, user selectable (e.g. can be used as an overtemperature alarm output, or welding interpass temperature reached warning etc)
- Four Operating Modes :-
  - ♦ OFF -Temperature indication only
  - ♦ Auto - Ramps and hold program (for post weld heat treatment)
  - ♦ T.Con - Manual setpoint (for preheat)
  - ♦ E.rEG - Energy Regulator (proportional relay output only which does not use thermocouple input)
- Each unit includes two mounting clips and two ferrite sleeves

Specification	
Supply Voltage	110V a.c. @ 50/60 Hz
Thermocouple Input	Type K (NiCr/NiAl)
Relay	Input Feed; max 240V a.c. @ 50/60 Hz Output: max 3 Amp rating
Temperature Control Range	Range: 0 to 1200° C
Measurement Accuracy	0.3° C
Linearity	Better than +/- 0.5° C at any point
Calibration Accuracy	+/- 1 display digit (Uncertainty: 1 display digit)
Proportional-Band Settings	+/- 5ºC, +/- 10°C, +/- 20°C and 40°C
Hold-Back Settings	10°C , 20°C , 40°C and 60°C
Alarm Settings, Over & Under Temperature Alarms	Off 25°C 50°C , 100°C
Alarm Settings, Interpass	Off 10°C to 100°C in 10°C Increments
Operating Temperature	0 to 55° C (Storage: -20 to 80° C)
Ambient Humidity	10 to 90% rel. hum.
Case Style	DIN 43700 (96mm x 48mm)
Panel Cut-out:	45mm x 92mm x 127mm (panel cut-out 45 x 92mm)
Weight	0.4kg.
Design Standards	EMC: EN 61326: 1998, LVD: EN 61010-1: 2001