



PH INFRARED PRE HEATER

PH / INFRARED PRE HEATER

CONTROL UNIT PH-2A / PH-1A





PH217 Kapton Tape



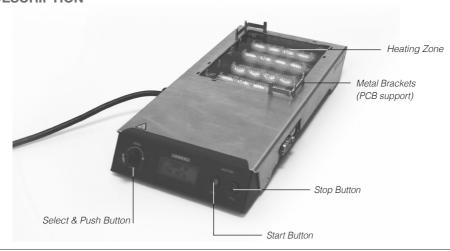
PH218 Thermo Couple



PH219 Metal Brackets



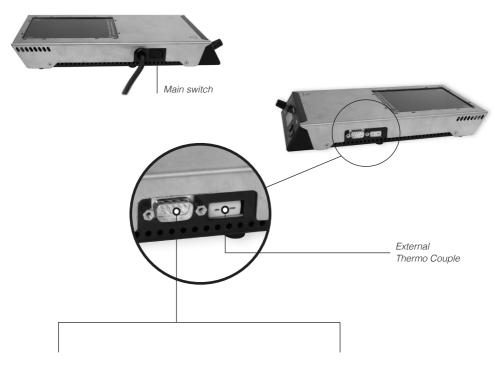
DESCRIPTION





CONNECTIONS

CONTROL UNIT

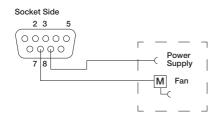


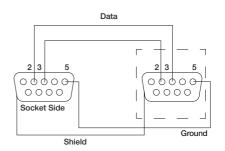
EXTERNAL FAN

With Pin 7 and 8 an external fan can be steered (bipolar semiconductor relais max. 30V AC / DC / 1A)

SERIAL INTERFACE

For Pc communications and updates Serial Null Modem clable required





WORKING

The Pre heater incorporates 2 modes of functioning

Manual Process

The PH maintains the selected power level throughout a selected time. Your PCB will heat up rapidly at first and more slowly as the temp. increases.

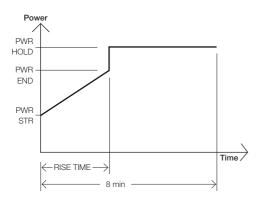
We need to connect the external thermocouple in case we wish to regulate with temperature. The unit will keep the selected temperature during the time set. The Operating time can be selected between 1 and 8 minutes (for safety reasons).

Execute Program

In this mode, pre-programmed profiles can be run. These profiles can be generated manually (as above) or automatically with the Self-teach function. Up to 99 programs can be stored. Maximum working time is 8 minutes (for safety reasons).

A program consists of a ramp (which augments power and is defined by 3 parameters: "PWR STR", "PWR END" and "RISE TIME") and a level of constant power (defined by the parameter "PWR HOLD").

Example:



In Program mode, the rise time can be overridden by pressing the start button at anytime whilst in operation. There are 2 ways to create a program:

Edit Program

This is a manual way of changing the profiles. The parameters PWR STR, PWR END, RISE TIME, PWR HOLD and the heating area selected (Front, back or all) are manually defined.

Teaching Program

This is the automatic mode of profile programming. The maximum allowable board temperature is selected which is read using an external thermocouple (K type). The PH heats up and over a period of time creates a program to reach and maintain this allowable temperature. The next similar type of boards can be heater by applying the program we have created without needing the thermo couple connected.

Other sections exist within the menú

System Config

General configuration of the system can be made from this sub-menu, temperature units, or time for external fan.

PC Connect

This section is used to communicate with a PC. Using specific software PH216, data can be passed back and forth between the PH and the PC. The software of the unit can be updated using PH software.

Other Functionality

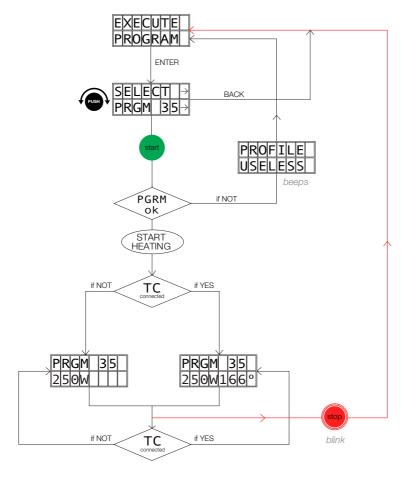
QS Function

This serves to block TEACHING / EDIT and SYSTEM CONFIG functions. This is activated / deactivated by pressing and holding the Start button for 3 seconds when switching it on.

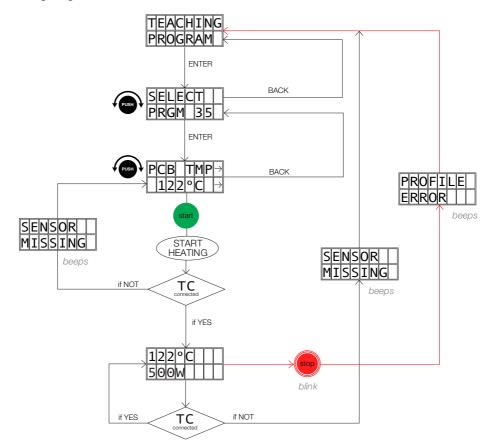


MENU SETTINGS

Execute Program

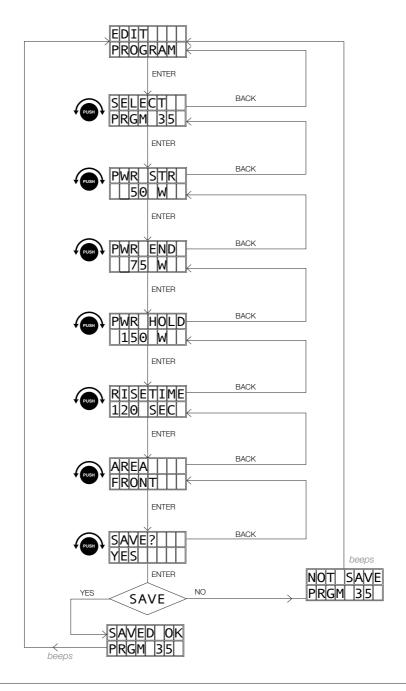


Teaching Program

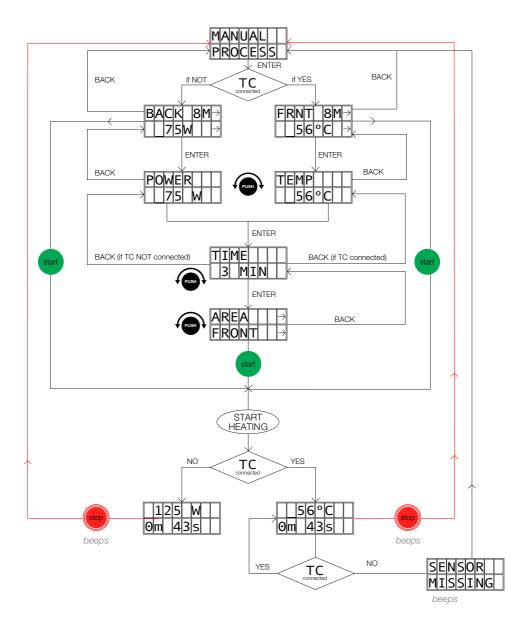




Edit Program

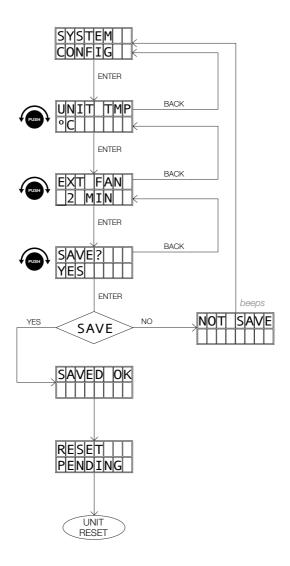


Manual Process

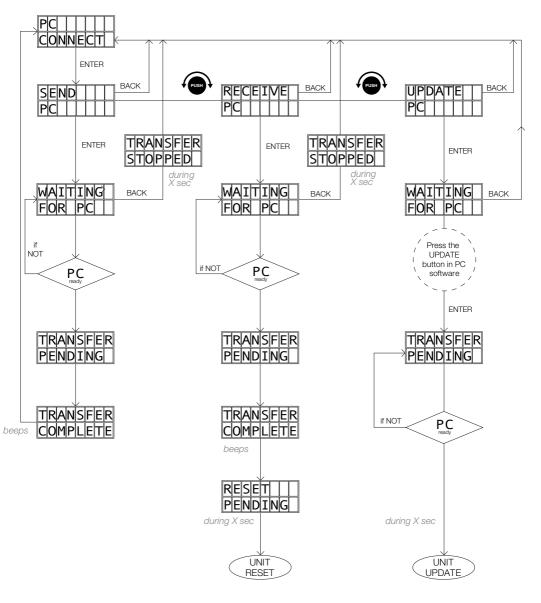




System config



PC Connect





PCB SUPPORTS

PH213 PCB Support

Secure and ESD safe support for PCBs above the PH through simply placing onto adjustable support. Dimensions: 208 x 230 x 53 mm



PH221 Magnetic PCB Support Self-adjusting support with spring Hight: 55,5 mm



PH211 Adjustable supports Adjustable support pillars. Vertical adj.: 55.5, 62,5 and

69.5 mm







PH215 PH Platform Secure and ESD safe support for PCBs above the PH.

Dimensions: 280 x 380 mm

PH210 PH Platform +

4 Adjustable supports





PH220 PH Platform + 4 Magnetic support



H010403* PC control program H101209* PC - PH updater program

*Available in web

TECHNICAL SPECIFICATIONS

- Nominal Power, 600VA
- Heated Area, 75 or 130 x 105mm (2 zones)
- Heating Power, 50 to 500 watt
- Heating Rate, 3,5°C/s
- Rise Time, 5 to 120 sec
- Maximum work time, 8 min
- Temperature Rate, from 50 to 170°C (120 to 340°F)
- Temperature Measurement, K Thermo Couple
- Cooling Rate, from 0 to 10 min (external fan required)
- Programs, up to 99.
- PH-1A 120V. Input 120V 50/60Hz
- PH-2A 230V. Input 230V 50/60Hz
- Fuses: Overload protection: 230V 4 A T & 0,160 A MT
 120V 6,3 A T & 0,315 A MT
- Total weight of unit: 1,9 Kg.
- Complies with CE standards on electrical safety, electromagnetic compatibility and ESD protected housing "skin effect".
- RoHS compliant.



This product should not be thrown in the garbage.



WARRANTY

JBC's 2 years warranty guarantees this equipment against all manufacturing defects, covering the replacement of defective parts and all necessary labour.

Warranty does not cover product wear due to use or mis-use.

In order for the warranty to be valid, equipment must be returned, postage paid, to the dealer where it was purchased enclosing this fully filled in, sheet.

SERIAL N°
STAMP OF DEALER
DATE OF PURCHASE