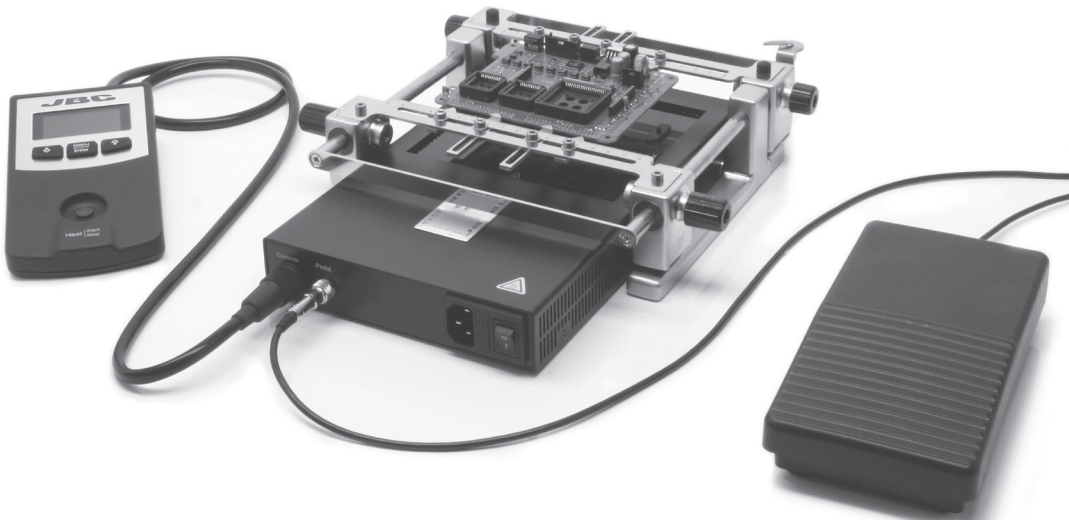


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PH-B

INFRARED PREHEATER

PH-B / INFRARED PREHEATER

PH-2B / PH-1B / PH-9B Infrared Preheater



Heater unit



Console

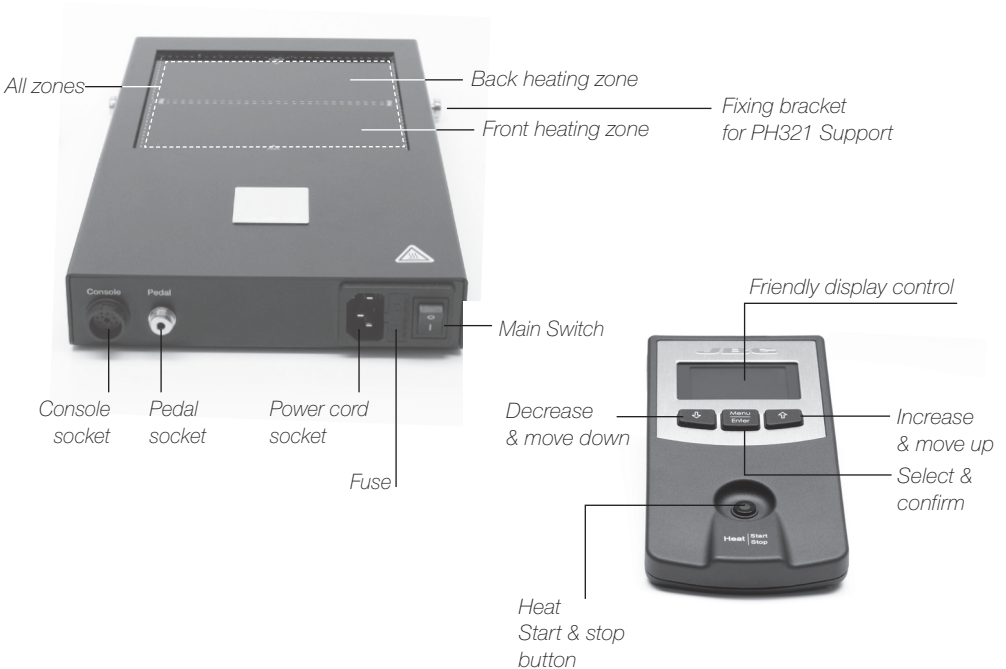
0009401
Power Cord



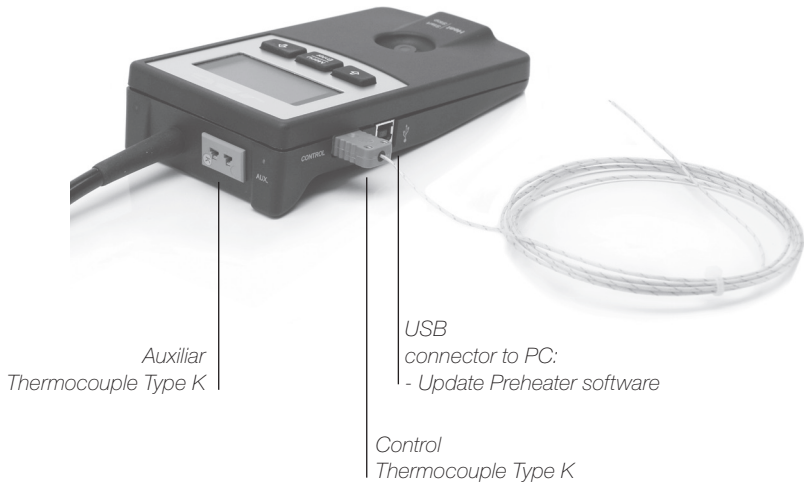
ThermoCouple



DESCRIPTION



INSTALLATION



MAIN MENU

Basic Mode

The unit will keep the selected temperature at the point where the Control TC is placed. The maximum working time and the maximum ramp-up rate are set in the station settings menu. In the station settings you can also select the maximum temperature available and set a unique temperature.

Power Mode

The unit works with the power selected. If you wish to see the actual temperature, plug in the Control TC.

Builder Profile

Build your custom profile step by step, test it and check it as many times as you wish. Once defined, save it in the profile memory.

Pre-Set Profiles

Run a pre-set profile. The profiles 1 (low), 2 (medium) and 3 (high) are pre-set for a standard rework process.

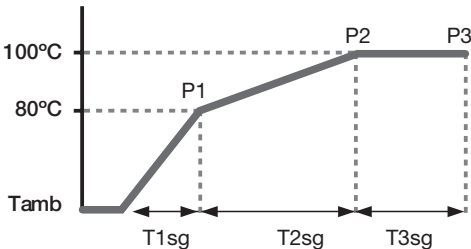
Custom Profiles

Run a saved custom profile. The custom profiles must be previously set by means of the builder profile or by using the options of the Profile Settings Menu: Edit, Copy and Delete.

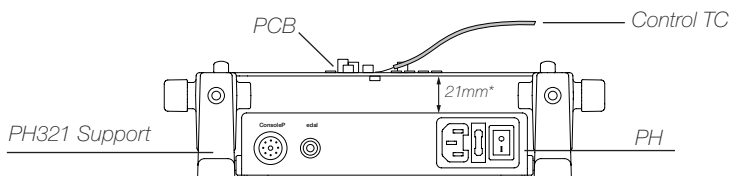
PRE-SET PROFILES

The unit incorporates 3 default profiles which are appropriate for most common jobs on FR4 bilayer substrates, multilayer and thick multilayer respectively.

Profiles are appropriate if you work with **PH321** support at its lowest working position (21mm *) and with the PCB focused on the PH. The Control TC must be placed with Kapton on the top side of the board, near the component to be repaired.



Times	Pre-Set P1 Low	Pre-Set P2 Medium	Pre-Set P3 High
t1	30 sg	40 sg	60sg
t2	15 sg	25 sg	40sg
t3	4 min	4 min	4 min



RELATIVE PROFILE

It is possible to run all profiles with the Control TC plugged or unplugged.

When the Control TC is plugged, all the working modes follow the target temperatures of the selected profile.

Once a profile has been run for the first time, it is already available in the “relative profile” mode. This means you can run this profile without plugging the Control TC. If you place the board on the PreHeater as the same way than you run the profile for the first time with the TC, the board will be heated identically. To make it easier, the PH321 support has a numbered ruler and fitting parts.

Each time a profile runs completely with the plugged TC, the Relative Profile is updated.

It is possible to test a Relative profile by using the Test Relative profile within the Profile Settings menu.

MAIN WARNING

MAXIMUM RAMP-UP EXCEED

The maximum ramp-up rate is set in the Station Setting Menu. The unit shows this warning if anytime you exceed this gradient.

NO RELATIVE PROFILE. CONNECT TC

The profile should be run completely at least one time in order to be saved in the relative profile.

SECURITY THERMOCOUPLE EXCEEDED

The unit is equipped with an auxiliary TC. It is possible to set a temperature target for this TC in the Station Settings Menu. The unit stops when the auxiliary TC reaches the target set.

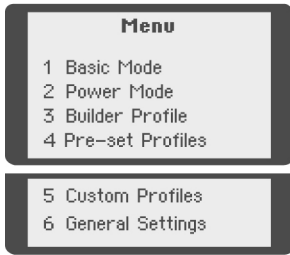
INVALID PROGRAM. Error > 10°C

This is displayed when the actual temperature differs from the setpoint by more than 10°C for 20s.

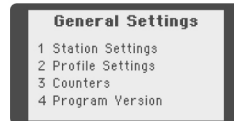
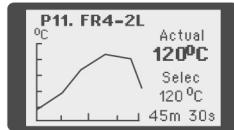
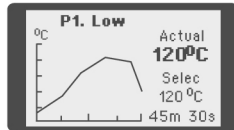
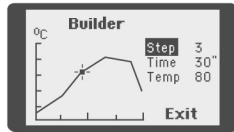
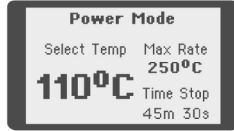
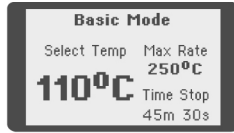
The unit incorporates 3 default profiles which can be appropriate for most common jobs about FR4 bilayer substrates, multilayer and thick multilayer respectively.

RECOMENDED GUIDELINES

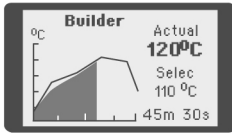
1. Place the Control TC as near as possible of the component to work with.
2. If there is any sensitive component, use the Auxiliary Thermocouple as protection.
3. For repetitive jobs, you can work without TC. Once you set the appropriate profile by using the Thermocouple, you can use the Relative Profile for the following PCBs to repair. The heating will be always the same as long as you work with the same board on the same place and position.
4. Do not exceed the allowable heat cycles for a board or component.
5. Do not recommend to exceed ramp-up rates of more than 3-4 °C /sec



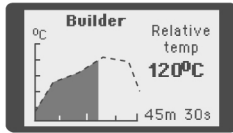
Original Pin 0105



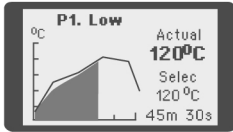
if TC connected



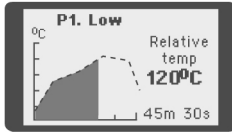
if TC NOT connected



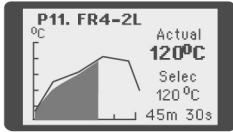
if TC connected



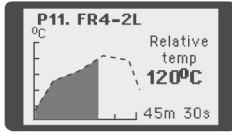
if TC NOT connected



if TC connected



if TC NOT connected



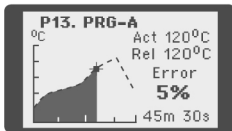
Station Settings

- 1 Zones All zones
- 2 Auxiliary TC 120°C
- 3 Time to stop 60 min
- 4 Temp Unit Celsius

- 5 Max Temp 250°C
 - 6 Fix Temp ----
 - 7 Ramp Up Rate ----
 - 8 Fix Profile ----
 - 9 Beep On
 - 10 Pop Up On
 - 11 Change PIN
- Back**

Profile Settings

- 1 Edit Profile
 - 2 Copy Profile
 - 3 Delete Profile
 - 4 Test Relative Profile
- Back**



Report			
Step	Relative	Actual	Error
1	150	140	+10
2	0	0	+0
3	0	0	+0
4	0	0	+0

TECHNICAL SPECIFICATIONS

- Maximum Power: 600VA
- Heated Area: 75 or 130 x 135mm (2 zones)
- Heating Power: 50 to 500 watt
- Adjustable Heating Rate: 1 to 10 K/s
- Maximum work time: 60 min
- Temperature Rate, from 50 to 250°C (120 to 480°F)
- Temperature Measurement, K ThermoCouple
- 3 Pre-set profiles
- Custom Profiles, up to 17 (10 steps for each profile)
- **PH-1B** 120V. Input 120V 50/60Hz
- **PH-2B** 230V. Input 230V 50/60Hz
- **PH-9B** 100V. Input 100V 50/60Hz
- Fuses: Overload protection: 230V 4 A T - 120V / 100V 8 A T
- Total weight of unit: 2,8 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.

JBC

WARRANTY

JBC's 2 year warranty covers this equipment against all manufacturing defects, including the replacement of defective parts and 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 form duly filled in.

SERIAL N°

DEALER'S STAMP

DATE OF PURCHASE

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