



GT90 & GT120 SOLDERING SYSTEM

Quick Start Guide



5 Commonwealth Ave
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Phone 781-665-1400
Toll Free 1-800-517-8431

 Visit us at www.TestEquipmentDepot.com

 **WARNING**



With power applied, the tip temperature can be > 200°C. Failure to observe the following precautions may lead to injury to users or damage the equipment: Do not touch any metallic parts of the cartridge. Always use cartridge removal pad and turn off system when changing cartridges. Do not use near flammable items. Do not use unit for any function other than described in this manual. Use only genuine Metcal replacement parts. Use in a well-ventilated area or with fume extraction. Do not use the equipment with wet hands. Connect only to properly grounded outlets to prevent risk of electric shock. Always place hand-piece back into the work stand to prevent accidental burning of oneself or surrounding objects. Children should be supervised to ensure that they do not play with the appliance. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Waste Electrical and Electronic Equipment Directive - WEEE (2012/19/EU).

When this GT90/GT120 station and power adapter is no longer required, if it cannot be re-used, we ask our customers not to dispose of it as unsorted municipal waste but to appropriately recycle the GT station or power adapter. In Europe, please contact your OK International distributor who can advise the recycling options available.

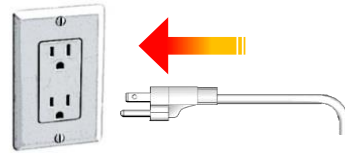


SETUP

1 Insert hand-piece into port



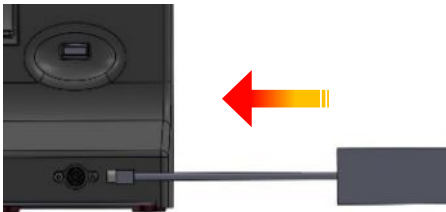
3 Plug in power adapter



4 Assemble cartridge heater and tip



2 Insert power adapter into back of system



WARNING



Do not touch tip without removal pad



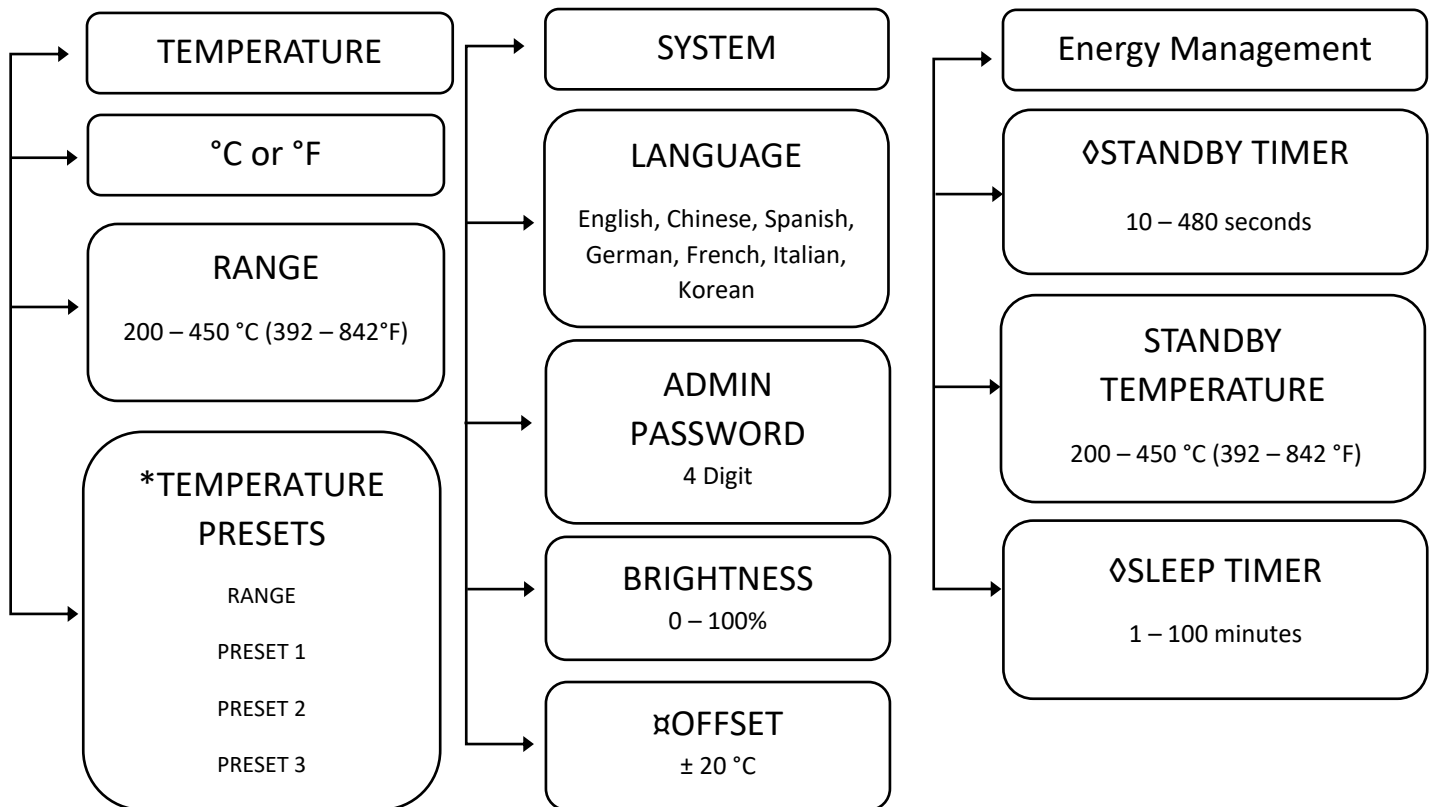
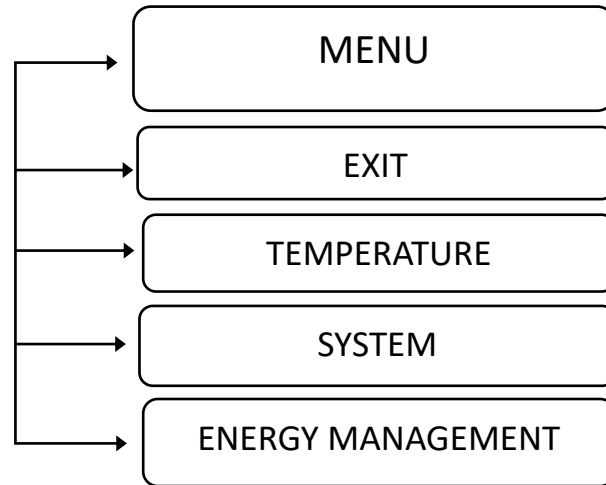
SYSTEM HARDWARE



MAIN SCREEN



MENU NAVIGATION MAP



*TEMPERATURE PRESETS only active in Password Admin Mode

- 200 – 450 C (392 – 842 F)
- Range is a manual setting
- Enable PRESET 1, 2, 3 individually OR any combination of the 3
 - Default Presets:
 - PRESET1: 400 °C
 - PRESET2: 350 °C
 - PRESET3: 300 °C

± 20 °C used for fine tuning tip temperature to an externally calibrated setpoint

◇ Standby timer starts when hand-pieces is not in motion

Sleep timer starts when the unit goes into standby mode. Pressing a button wakes the unit.

TECHNICAL SPECIFICATIONS

Power Station	GT90	GT120
Soldering Temperature Range	200 to 450 °C 392 to 842 °F	
Rated Ambient Operating Temperature	10 to 40 °C 50 to 104 °F	
Maximum Enclosure Temperature	55° C	
Input Line Voltage	100 - 240 VAC (120 VAC for U.S.) grounded circuit, universal Input	
Input Frequency	50 / 60 Hz	
Channels	Single Port	
Power Input	90 W max	120 W max
Dimensions - Soldering Station (w x d x h)	11.0 x 12.5 x 16 cm 4.3 x 4.9 x 6.1 in	
Weight - Soldering Station w/ Power Adapter	1.68 kg 3.70 lb	
Display	2.5" monochrome LCD Display	
Controls	4 tactile buttons	
Communications	1 x USB A	
Standby Timer	10 – 480 seconds	
Sleep Timer	1 - 100 minutes	
Free Range Tip Temperature Adjustment	Yes	
Tip Temperature Presets	3	
Firmware Upgrade	Via USB port with memory stick	
Tip-to-Ground Potential / Resistance	< 2mV / < 2 Ω	
Tip Temperature Accuracy	Meets or exceeds IPC J-STD-001	
Idle Temperature Stability	± 1.1 °C (2.0 °F) in still air	
Power Station Warranty	1 Year	2 Years
Certifications	CE, TUV	
Hand-Piece		
Hand-piece connector	8-pin circular DIN	
Hand-piece cord length	1.5m (5'), burn proof, ESD safe	

FIRMWARE UPGRADE

- 1 Transfer the latest firmware image to an external USB drive.

- 2 Power down the Station with the switch located on rear enclosure. Disconnect the hand-piece from the station.

- 3 Plug in the external USB drive to the USB port in the back of the station.



- 4 Press and hold **Menu** and **↵** buttons simultaneously while switching the power button ON for 3 seconds.

Once the firmware is loaded successfully, the power station should display "Cartridge Open".



- 5 Reconnect the hand-piece to the station and turn the power OFF, then back ON.

Verify the firmware version by observing the startup page. The model and version will be displayed for a few seconds before transitioning to the home status screen.



GT CALIBRATION STATEMENT

GT systems are designed to the latest J-STD-001 specification and do not need to be calibrated for the following reasons:

- Programming during the production process has been completed to account for any drift in component characteristics and is under microprocessor control.
- Heating element for GT cartridges and tip heater cartridges have been designed and controlled to meet the IPC requirement of $\pm 10^{\circ}\text{C}$ temperature delta.
- The life of the RTD temperature sensing element embedded in the cartridge is much longer than the cartridge itself.
- For tighter internal specification needs, the GT systems offer a user-configurable programmable offset feature.



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