

 English (EN)

Product: GTW Thermocouple Attachment Unit

Product Code: GHT 4001

## DESCRIPTION

The GTW is a capacitance-discharge welding unit used for the attachment of thermocouple wires to a work piece. It has fixed 25 Joules energy output to suit standard 0.7mm solid TC wire. This unit is battery operated with mains connection for recharging.

## FEATURES

- Manual operation
- 25 Joules energy output
- Rechargeable battery via mains connection
- Low battery LED indicator
- Auto switch-off after 3 minutes to conserve battery
- Output voltage maximum is a safe 60 Volts
- Stainless-steel case includes shoulder strap and tool storage

## FRONT PANEL CONTROLS

- Charge switch: Turns unit on and starts energy charging
- Weld button: For manual discharging of energy to make weld
- Charging & Ready LED indicators: When ready is reached, weld can be made
- Low Batt Indicator: Steady, then flashes for very-low battery (Unit then off to protect battery)
- Mains indicator: Shows mains is connected & battery is charging (Maximum 6 hours)



## OPERATION

To weld a wire to a steel body, the magnet is used to make a return contact.

The thermocouple wire is stripped back and the pliers are used to grip this wire about 15mm from the cut end.

The 'charge' button is pushed and released. After a short time the LEDs change from 'charging' to 'ready'.

The thermocouple wire is held firmly against the steel surface and the 'weld' button is pushed. This welds the wire to the steel body.

## SAFETY PRECAUTIONS

Eye protection is recommended to guard against molten metal spatter when weld occurs.

The weld spark could be a source of ignition for flammable liquids or gases so ensure the GTW is only used in safe areas.

Avoid looking directly at bright spark when making the welded joint.

Ensure the thermocouple wire is not connected to any control equipment as these might be damaged during energy discharge.

## INSTRUMENT CARE

Only charge the battery via the mains connection for 6 hours maximum. Longer will degrade the battery.

The GTW is NOT waterproof so avoid water ingress to front panel.

Clean front panel using slightly damp cloth or, for tough stains, use cloth impregnated with WD40 cleaner.

## SPECIFICATION

Size: 190mm x 300mm x 100mm

Weight: 4.2kg

Unit of Sale: Each

Battery Type: Sealed lead-acid (non-spillable) 12V 2.1Ah

Weld Voltage: 62V

Charging Time: Approx. 5 seconds (following battery recharge)

Battery Life: Approx. 1200+ welds

EMC EN61000-6-1:2001, EN6100-6-3:2001

LVD: EN61010-1:2001

Product is CE marked and WEEE compliant