

# GlobeHeat Datasheet : Product Code GHT 4004



## Product Description: TW158 Thermocouple Attachment Unit

A compact, and lightweight portable unit. Powered by four, 1.5V, AA batteries the unit uses the capacitance-discharge method for the attachment of a thermocouple wire to a workpiece, to allow temperature recording and control instruments to accurately read the temperature of the workpiece being heat treated.

## Applications

Variable, operator selectable 20 to 50 Joules energy output suitable for attaching various sizes of thermocouple wire. With its optional manual or automatic operating mode, it is ideal for attaching thermocouples on difficult to reach areas of the workpiece and where for safety reasons, the operator requires a hand to be free.

## Features

- Compact and lightweight.
- Automatic and Manual Operation.
- Automatic operation – Stripped back, bare TC wire is held in the pliers with the magnet providing a welding return. Once the unit is charged, by pressing the 'Charge' button, the unit then senses when the operator touches the end of the thermocouple wire to the workpiece and then automatically spot welds the TC wire to the workpiece. The unit then automatically recharges ready for the next spot weld.
- Manual operation – Stripped back, bare TC wire is held in the pliers against the workpiece with the magnet providing a welding return. Once the unit is charged by pressing the 'Charge' button, pressing the 'Weld' button then spot welds the TC wire to the workpiece.
- 20 to 50 Joules energy output suitable for attaching various sizes or thermocouple wire 0.5mm to 2.0 mm solid TC wire.
- Powered by four AA batteries.
- Low battery LED indicator.
- Auto switch-off after 3 minutes to conserve battery.
- 60V maximum output voltage.
- Supplied in a waterproof nylon carrying case with belt loop, shoulder strap and tool storage.
- Supplied with one set of pliers and welding return magnet.

| Specification                                |  |
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| Thermocouple (TC) Wire size                  | 0.5mm to 2.0 mm solid TC wire.   |
| Batteries                                    | Four AA 1.5V batteries   |
| Number of welds from a fully charged battery | Approx. 400 welds at 30 Joule setting  |
| Safety                                       | Safety glasses should be worn by the operator. Safety glasses sold separately GHT 9657 |
| Dimensions                                   | 137mm x 190mm x 45mm   |
| Weight                                       | 1.2 kg   |
| Design Standards                             | EMC: EN61000-6-1:2001, EN61000-6-3:2001. LVD: EN 61010-1: 2001                         |