

# Datasheet : Product Code GHT 4100



## Product Description: Automatic Thermocouple Attachment Unit, Variable Voltage GTW-V50

The GTW-V50 is a portable, rechargeable battery operated, automatic, thermocouple attachment unit which uses the capacitance-discharge method for the attachment of thermocouple wire to a work piece, which is to be heat treated, in order to read the temperature of the workpiece.

## Applications

The GTW-V50 has a variable, operator selectable, 22 to 50 Joules energy output suitable for attaching various sizes of thermocouple wire 0.5mm to 1.7mm solid TC wire. With its optional Manual or Automatic operating mode, for operators working alone, it is ideal for attaching thermocouples in difficult to reach points on the workpiece and where, for safety, the operator requires a hand to be free.

## Features

- 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.
- 22 to 50 Joules energy output suitable for attaching various sizes of thermocouple wire 0.5mm to 1.7mm solid TC wire.
- Rechargeable battery.
- Low battery LED indicator.
- Auto switch-off after 3 minutes to conserve battery.
- 60V maximum output voltage.
- Stainless-steel case includes shoulder strap and tool storage.
- Supplied with one set of pliers, welding return magnet and supply and supply lead.

Specification	
Supply Voltage	115 V or 230/240 V @ 50/60 Hz
Thermocouple (TC) Wire size	0.5mm to 1.7mm solid TC wire.
Battery	Rechargeable, sealed lead-acid, 12V 2.1Ah
Number of welds from a fully charged battery	Approx. 1,000 welds
Operation time for fully charged battery	Up to 100 hours
Safety	We recommend using safety glasses to protect from welding sparks produced
Design Standards	EMC: EN61000-6-1:2001, EN6100-6-3:2001 , LVD: EN 61010-1: 2001
Weight	4.2 kg
Dimensions	190mm x 300mm x 100mm

