



## Thermocouple fine wire welder



- ◆ Simple to use Thermocouple Welder
- ◆ Designed for the production of commercial grade thermocouple junctions
- ◆ Also suitable for other fine wire work
- ◆ Front panel or footswitch operation



Spare carbon electrodes in a pack of 5

### About Labfacility

Formed in 1971, Labfacility specialize in the field of Temperature and Process Measurement.

We are the largest UK manufacturer of both temperature sensors and thermocouple connectors

### Quality & Service

Quality and Service are key elements in the continued growth of Labfacility.

Technical support is always freely available from our experienced technical sales teams and the company has ISO9001 accreditation.

### Contact Details

Email  
sales@labfacility.com

Website  
www.labfacility.com

The Thermocouple Welder is a compact, simple-to-use instrument designed for thermocouple and fine wire welding

It is primarily designed for use by sensor manufacturers to produce commercial grade thermocouple junctions; it is ideal for producing large numbers of exposed junction thermocouples for test and development laboratories.

The L60 Thermocouple Welder is ideally suited to transducer and RTD extension lead attachment

Use of the Thermocouple Welder does not require special skills and most operatives will be capable of producing quality work with little practice.

The instrument is supplied with a full range of user accessories including a footswitch Suitable for use with wires of up to 1.1mm diameter an argon gas shield facility is included but a satisfactory thermocouple junction is produced without the need for argon.

The output energy of the L60 Thermocouple Welder can be varied up to 60 Joules.

### ORDER CODES

THERMOCOUPLE WELDER	<b>410-0669</b>
CARBON ELECTRODES (x5)	<b>244-3730</b>

### Supplied complete with the following accessories:

- ◆ Wire Holding Pliers & Lead
- ◆ Safety Glasses
- ◆ Magnifying Eyeglass
- ◆ Carbon Electrodes
- ◆ Spare 2A Fuse
- ◆ Argon Hose
- ◆ Mains Lead
- ◆ Footswitch for greater ease of use



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## Specifications



### General

Energy Output 0-60 Joules  
Welding Capacity Wires up to 1.1mm diameter  
Duty Cycle Minimum 5-10 welds/min

### Mechanical

Physical Dimensions 220mm Wide x 120mm High x 250mm Depth  
Weight 4kg

### Electrical

Power Supply 110-120 Vac or 220-250 Vac, 50-60Hz  
Power Consumption Max 170VA dropping to 20VA during charging

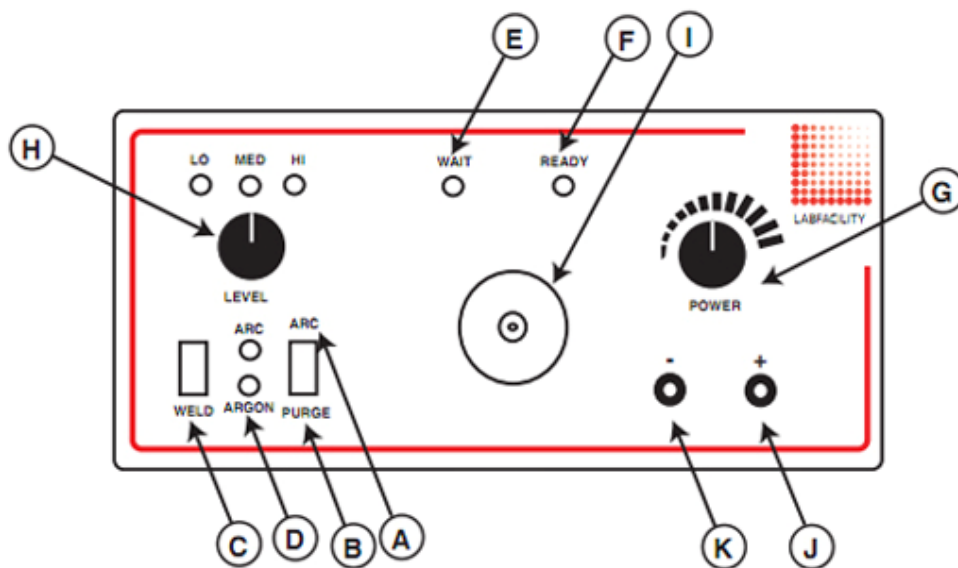
### Maintenance

Apart from keeping the electrode in good order, no other maintenance is required

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## TEMPERATURE & PROCESS TECHNOLOGY

### Welder Controls



- |   |                  |  |
|---|------------------|--|
| A | Arc              | Argon gas and weld current controlled by the "Weld" switch. LED indication   |
| B | Purge            | Allows the gas line and electrode shield to be purged of air prior to a new welding period   |
| C | Weld Switch      | Initiates a welding operation (in "arc" mode also opens the Argon valve)   |
| D | Argon LED        | Indicates when the Argon control valve is open and gas is flowing  |
| E | Wait LED         | Glowes when weld charge is building  |
| F | Ready LED        | "Ready to Weld" indication   |
| G | Power            | Rotary control of the capacitor charge voltage   |
| H | Level Selector   | Selects the total capacitance available giving the following values with LED indication<br><br>"LO" = 0 to 6 Joules<br>"MED" = 0 to 28 Joules<br>"HI" = 0 to 64 Joules |
| I | Electrode Holder | Holds the replaceable carbon electrode which is accessible by removing the outer Argon Shield  |
| J | Red Socket       | Output socket for using the pliers supplied  |
| K | Black Socket     | Output socket, this provides an additional earth   |

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