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 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

---

About Labfacility

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
XF-1250-FAR

CARBON ELECTRODES (x5)
244-3730

Spare carbon electrodes in a pack of 5

---

---
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.

About Labfacility

Quality and 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.

Included Accessory's

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
- Impact clip
- Pen and plate

Contact Details

Email
sales@labfacility.com

Website
www.labfacility.com
Impact welding is the term used for welding wires to a conductive metal surface. This process is common when thermocouples are required to be welded to a test piece/structure or similar application.

The impact welding clip attachment should be plugged into the black negative (\(-\)) socket on the front of the L60+ welder. The impact clip should then be attached in close proximity to where the thermocouple is required to be attached.

The thermocouple wires are then gripped in the holding pliers and pressed against the surface to which they are to be welded.

The weld switch or footswitch is then pressed triggering the L60+ welder discharge that will attach the wires to the applied surface. Once the thermocouple has been successfully welded the impact weld clip can be removed.
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 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.

About Labfacility

Contact Details

Email sales@labfacility.com
Website www.labfacility.com

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.

Accessory's -
Pen and Plate Resistance Welding Accessory

The kit consists of a Copper Plate with a black lead and a Copper tipped spring-loaded pen with appropriate red lead. The leads are terminated in 4mm banana plugs which connect to the corresponding sockets on the front of the L60+ Welder. It is suitable for welding ribbon materials of ferrous and higher resistance metals such as Nickel & Chromium alloys. It will not weld low resistance metals such as Copper, Silver, Gold or Brass.

In use, the materials to be joined are placed on top of the other on the copper plate and the pen tip is applied with moderate pressure. The weld is then triggered by the switch on the L60+ or footswitch (if used). Test welds will determine optimum settings for material size and composition. We recommend that the Operator starts off with a Medium Energy setting and check the state of the weld. The energy setting can be increased if the weld pulls apart easily or lower if the weld is too severe. With flat materials, a pattern of welds may be made to increase the strength of the joint.

If necessary the plate can be cleaned with fine wire wool, and the welding pen tip may be cleaned with a fine grade emery cloth if necessary.

Please note that during welding done using the pen/plate Argon will not be utilised and therefore should be turned off at the front of the welder.
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

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
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

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 Glows 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
  "LO" = 0 to 6 Joules
  "MED" = 0 to 28 Joules
  "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