

Datasheet

IEC PFA Insulated Twin Twisted Pair Thermocouple Cable

Available in Thermocouple Types K, J & T



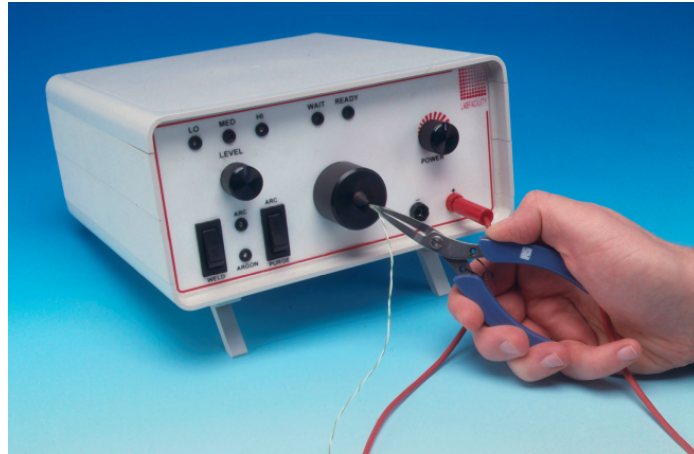
(Type 'K' shown – see below for other thermocouple types and corresponding colour codes)

- PFA Teflon® twin twisted pair for extending or making simple thermocouples
- Single pair of PFA insulated conductors twisted together
- Good mechanical strength and flexibility, resistant to oils, acids and other adverse fluids, gasses, steam & pressure etc.
- Thermocouple types K, J & T
- 25, 50 & 100 metre reel lengths
- Tolerance Class 1 for optimum accuracy
- Insulation rating -75°C to 260°C
- Colour coded to IEC-584-3

T/C Type	Conductors	Cores	Reel Length	Allied code	RS order code
J	1/0.2mm	+Black/-White	25 metres	70657175	827-5918
J	1/0.2mm	+Black/-White	50 metres	70657173	827-5912
K	1/0.315mm	+Green/-White	25 metres	70657177	827-5924
K	1/0.315mm	+Green/-White	50 metres	70657178	827-5928
K	1/0.315mm	+Green/-White	100 metres	70657181	827-5937
T	1/0.315mm	+Brown/-White	25 metres	70657183	827-5943
T	1/0.315mm	+Brown/-White	50 metres	70657184	827-5946
J	1/0.508mm	+Black/-White	25 metres	70657176	827-5921
J	1/0.508mm	+Black/-White	50 metres	70657186	827-5956
K	1/0.508mm	+Green/-White	25 metres	70657179	827-5930
K	1/0.508mm	+Green/-White	50 metres	70657180	827-5934
T	1/0.508mm	+Brown/-White	25 metres	70657182	827-5940
T	1/0.508mm	+Brown/-White	50 metres	70657187	827-5959
T	7/0.2mm	+Brown/-White	25 metres	70657185	827-5952
T	7/0.2mm	+Brown/-White	25 metres	70657189	827-5965

Making your own thermocouples?

L60 Thermocouple & Fine Wire Welder



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

- 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
- Argon gas shield facility

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



Carbon Electrode

ORDERING INFORMATION

MODEL

FINE WIRE WELDER

Spare Carbon Electrodes (x5) for 1.1mm 250V Fine Wire Welder

Allied Code

70825788

70656473

RS ORDER NUMBER

363-0351

814-0184

RS181/0816

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

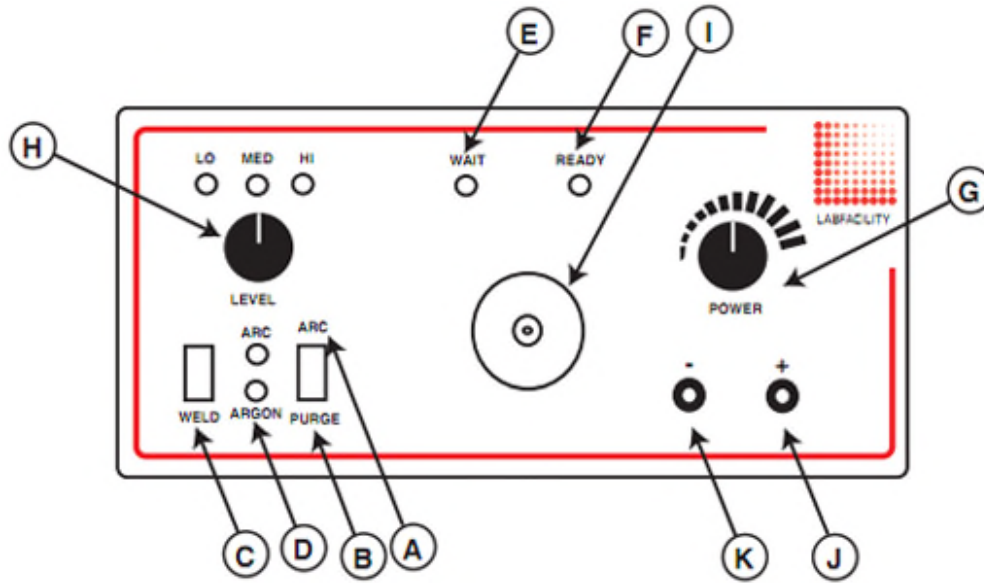
(Front View)



(Rear View)



Thermocouple 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