## UK

## **Calder Comet**

## **Electrofusion Processor Operator Instruction Manual**





Helping you make the right connections<sup>™</sup>

Revision: 07-06-2010 Software Version: 1.17 onwards

©2010 Caldervale Technology Limited.



### **Comet Operation Process.**



### **Comet Operation Process – Barcode Mode.**



## **Comet Operation Process – Manual Mode.**



#### **Comet Operation Process – Download Memory.**

Insert the USB disk stick to activate the download process.



- E-00 Weld cycle completed with no error.
- E-01 Supply voltage too high.
- E-02 Supply voltage too low.
- **E-03** Supply frequency too high.
- E-04 Supply frequency too low.
- **E-05** Fitting open circuit (disconnected).
- **E-06** Fitting short circuit.
- **E-07** Accessory resistance is greater than barcode resistance upper limit.
- **E-08** Accessory resistance is less than barcode resistance lower limit.
- **E-09** Excessive output voltage (more than 6% of accessory voltage).
- E-10 High output voltage (more than 1.5% of accessory voltage).
- E-11 Low output voltage (less than 1.5% of accessory voltage).
- **E-12** Output current surge (accessory heating coil short circuited).
- E-13 Low output current (output current is less than 0.8 amps).
- E-14 Operator stop.
- **E-15** Loss of supply voltage (only shown on weld record).
- E-16 Ambient air temperature too high (default limit of +50 ℃).
- E-17 Ambient air temperature too low (default limit of -10 °C).
- E-18 Accessory power requirement too high.
- E-19 Low output current (the output current has fallen more than 90% of the stabilized starting current value within 2 seconds).
- E-100 Barcode information incorrect.
- E-104 Barcode not recognised.

## **Comet Specifications.**

Operating mode:	Bar Code Entry Manual Time Entry
Record memory capacity:	2000 welds
Memory download:	USB Flash Disk (supplied with EDU download utility software)
Languages:	Symbolic
Display:	Alphanumeric with backlight
Input voltage:	110 V ac (88 to 132) <b>or</b> 240 V ac (184 to 276)
Input frequency:	50 Hz (40 to 70)
Input current:	1 A to 30 A with 110V input 1 A to 14 A with 240V input
Input power:	110 VA to 3300 VA (apparent)
Power factor:	Apparent 0.72
Output voltage:	8 to 42V ac rms 39.5V ac rms (default in manual mode)
Output stability:	+/- 1.5%
Output current:	1 A ac rms to 60 A ac rms (continuous)
Output power:	40 W to 2880 W
Operating temperature:	-10°C to +45°C
Weight:	20.6 kg
Dimensions:	38,5 x 27,5 x 21.5cm
Protection level:	IP55
Protection class:	Class 1 (equipment must be earthed)
Data output:	USB
Barcode reader type:	PS/2 serial

## <u>Risk of explosion!</u>. This equipment is not to be used in a gaseous atmosphere.

## Caution.

Risk of electric shock! Do not open.

### Caution.

To avoid damage to the welding unit do not interrupt the input supply or disconnect the output lead from the welding unit or fitting during a fusion cycle.

## Caution.

This apparatus must be earthed (grounded).

This product has been manufactured in accordance with the following directives:

- 73/23/EEC Low voltage Electrical Equipment (Safety) Regulations.
- 2002/95/EC Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations.
- 2002/96/EC Waste Electrical and Electronic Equipment (WEEE) Directive.

This product has been manufactured to meet the following standards:

Safety of Electrical Products:

- ISO 12176-2 Equipment for fusion jointing polyethylene systems. Part 2 : Electrofusion.
- Italian National Standard UNI 10566
- BS 7540-1,2 & 3:2005, BS 7671:2001, BS 7919:2001, BS EN 1555-3:2002,
- BS EN 60068-2:1993, BS EN 60204-1:2004, BS EN 60309-2:1999,
- BS EN 60529:1992, BS EN 60947-1:2004, BS EN 61558-1:1998,
- BS EN 61558-2 &23:2001, BS EN 62262:2002

# CE



This product conforms to the RoHS directive.



Not to be disposed of in domestic waste. Contact your Caldervale Technology Limited or your local authority for the disposal of this product. Notes:

## Caldervale Technology Limited Bretfield Court Dewsbury West Yorkshire WF12 9DB United Kingdom





©2009 Caldervale Technology Limited.