



Automatic Thermocouple Attachment Unit

100-125V a.c Stock Reference: 41756
 220-240V a.c Stock Reference: 41757

Eliminate expensive temperature control and recording errors as well as thermocouple failures!

Cooperheat's powerful Automatic Thermocouple Attachment Unit (TAU) helps eliminate the risk of expensive rework by enabling accurate temperature control and recording, and reducing the risk of thermocouples breaking off during the heat treatment process.

The TAU can also be used to attach thermocouples for many other temperature monitoring applications that require reliable temperature measurement.

One hand is better than two!

It can be difficult to attach thermocouples with manual attachment units, which require both hands to operate. Cooperheat's Automatic Thermocouple Attachment Units require only one hand to operate which can be an important safety feature when working at elevated levels or inaccessible locations.

Cooperheat's Automatic Thermocouple Attachment Unit

Direct attachment of thermocouples to the work-piece by the 'capacitive discharge method', has long

been established as the preferred industry standard method of attaining accurate temperature measurement of the work-piece being heat-treated or monitored. Cooperheat's Automatic Thermocouple Attachment Unit utilises this method to attach various gauges of thermocouple wire to the work piece.

Versatility

- Three power output settings enable the unit to attach 12, 18 and 24 gauge (awg) thermocouple wire;
- A stainless steel case is non-corrosive in all environmental conditions including offshore;
- Battery or mains operated;
- Available for use with 230 V or 110V battery recharging supplies.

Ease of operation and maintenance

- Can be operated by one person;
- Single handed operation in automatic mode;
- Simple to operate;
- No welding skills required;
- Light weight and portable;
- Recharged simply by connecting to the appropriate a.c supply.

- Indicating lights show unit charge status and battery status;
- Three power settings can be selected in both automatic and manual operating modes;
- Automatic switch off after 3 minutes to save battery power;
- Carrying shoulder strap fitted as standard;
- Integral storage compartment for safe storage of pliers, magnet and recharging cable.

Specifications	
Power Requirement:	
Power Consumption:	5.0 VA
Battery Voltage:	12 Volts
Battery Capacity:	2.7 Ah
Thermocouple Diameters:	0.5, 1 & 2 mm selectable
Discharge Voltages:	50 / 70 / 83 V d.c nominal
Battery Monitor:	Monitoring LED and Automatic Full Discharge Protection
Number of discharges:	Approximately 1000 on setting 2 at a rate of 200 discharges per day with fully charged battery.
Height:	210 mm
Width:	215 mm
Depth:	90 mm
Weight:	4.25 kg
Spare Replacement Parts	
Part Number:	Description:
ZY-41756/1	100 - 125 Volts TAU PCB complete
ZY-41757/1	220-240 Volts TAU PCB complete
TH-50RIA40	Thyristor 50RIA100
516-041	16A, 100V, 2P&E plug
530-006	Panel mounting fuse holder 20 mm
530-064	Fuse 20 mm 500mA (Pack 10)
536-058	Shoulder Strap & Clips
HAR105	Toggle Catches
536-128	Pliers/ Magnet Cable Set
538-024	LED Red c/w Ring & Clip
538-025	LED Green c/w Ring & Clip
538-026	LED Yellow c/w Ring & Clip
SWT001	Pushbutton Green
SWT002	Pushbutton Red
HAR150	21 mm Knob Black
HAR151	Knob cap 21 mm black
HAR152	21 mm transparent figure dial
558-027	Battery 12V 3 Ah
Consumables	
Part Number:	Description:
43000	100m roll Type K thermocouple wire
516-111	Type K thermocouple plugs

Fitness for purpose

- Constructed from high-grade stainless steel giving excellent protection against corrosion even in marine offshore applications;
- Capable of over 1000 discharges from a fully charged integral nickel cadmium battery;
- Third party tested to ensure Electro-Magnetic Compatibility (EMC).

Reliable, safe and cost efficient

At Cooperheat, we do whatever it takes to deliver excellence in the design, manufacture and product support of Heat Treatment Equipment.

Call us today for all your heat treatment requirements.

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