FEATURES

• Separate visual and audible indicators monitor welder status. Weld energy is continuously adjustable from 3 to 50 joules, making the Model 700 an excellent choice for installing weldable strain gages and temperature sensors, as well as small thermocouples and light-gauge metal.

• Supplied with a lightweight soldering pencil. A front-panel control adjusts soldering tip temperature for a wide range of soldering applications in the field or in the laboratory.

• “Low-battery” light to warn the user when the internal, sealed lead-acid battery requires charging. A battery charger is included to provide for full battery charge with no danger of overcharging. Indicator lights monitor battery charge rate.

• Convenient storage space for cables, battery charger and instruction manual.

GENERAL SPECIFICATIONS

OVERALL SIZE
9 L x 9 W x 9-3/4 H in [230 x 230 x 250 mm]

WEIGHT
21 lb [9.5 kg]

POWER FOR RECHARGING
115 VAC or 230 VAC, 50-60 Hz. Uses external AC transformer (provided)

OPERATING AND STORAGE TEMPERATURE RANGE
0°F to +120°F [-20°C to +50°C]

WELDING SPECIFICATIONS

WELD ENERGY RANGE
3 to 50 joules, continuously adjustable by front-panel control
Maximum open-circuit voltage less than 25 VDC

MAXIMUM WELD REPETITION RATE
20 per minute at 30 joules, typical

NUMBER OF WELDS PER BATTERY CHARGE
Approximately 2000 at weld energy setting of 30 joules. This is equivalent to 40 Micro-Measurements weldable gage installations.

BATTERY CHARGE TIME: (FROM FULL DISCHARGE)
12 hours to 75% full charge; 18 hours to full charge

BATTERY
One sealed, rechargeable lead-acid (non-liquid) type, 12 volt, 5 ampere-hour

WELDING PROBE
Manually fired with trigger control and “steady-rest”

WELDING CABLES
Two 5 ft [1.5m], fully flexible

WELD ENERGY MONITOR
Calibrated front-panel control with READY and WAIT indicators; audible indication selectable
Portable Strain Gage Welding and Soldering Unit

SOLDERING SPECIFICATIONS

TEMPERATURE CONTROL
Continuously variable with bands indicating melting range of solders

SOLDERING PENCIL
1.1 oz [31 gm], rated at 25 watts, 12 volt operation. Tip temperature adjustable from +200°F to +900°F [+90°C to +480°C].

SOLDERING DURATION
4 hours using +361°F [+183°C] melting point solders (with initial full charge)

ACCESSORY
Model 700-A103 Spot Welding Probe Set: Recommended for spot welding instrument leadwires to ZC Series high-temperature gage ribbons

All specifications are nominal or typical at +23°C unless noted.

PANEL CONTROL FEATURES

SELECTOR SWITCH FOR WELDING/SOLDERING

WELD ENERGY CONTROL

16 VAC POWER

CABLE STORAGE AREA

BATTERY STATUS INDICATOR LIGHTS
SOLDERING PENCIL RECEPTACLE
SOLDERING PENCIL HEAT CONTROL
AUDIO INDICATOR SWITCH
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