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Model 700

Portable Strain Gauge Welding & Soldering Unit

A battery-operated capacitive discharge spot welder for attaching and wiring weldable strain gauges and temperature sensors.

- 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 gauges 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 built-in charger operates automatically when plugged into 115 or 230 Vac, to ensure full battery charge with no danger of overcharging. Indicator lights monitor battery charge rate.
- Convenient storage space for cables and instruction manual.



PANEL CONTROL FEATURES

Selector Switch For Welding / Soldering

Weld Energy Control

115/230 Vac Switch

Cable Storage Area



Battery Status Indicator Lights

Soldering Pencil Receptacle

Soldering Pencil Heat Control

Audio Indicator Switch

Specifications

WELDING

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 2,000 at weld energy setting of 30 joules. This is equivalent to 40 Micro-Measurements weldable gauge 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 (1.5 m), fully flexible

WELD ENERGY MONITOR

Calibrated front-panel control with READY and WAIT indicators; audible indication selectable.

SOLDERING

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° to +900°F (+90° to 480°C).

SOLDERING DURATION

4 hours using +361°F (+183°C) melting point solders (with initial full charge).

GENERAL

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).

INPUT POWER FOR RECHARGING

115 Vac or 230 Vac, 50-60 Hz.

OPERATING AND STORAGE TEMPERATURE RANGE

0° to +120°F (-20° to +50°C).