Model 700

Portable Strain Gage Welding and Soldering Unit

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
Model 700

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.
Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, “VPG”), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify VPG’s terms and conditions of purchase, including but not limited to, the warranty expressed therein.

VPG makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase.

To the maximum extent permitted by applicable law, VPG disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on VPG’s knowledge of typical requirements that are often placed on VPG products. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. You should ensure you have the current version of the relevant information by contacting VPG prior to performing installation or use of the product, such as on our website at vpgsensors.com.

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of VPG.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling VPG products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify VPG for any damages arising or resulting from such use or sale. Please contact authorized VPG personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Copyright Vishay Precision Group, Inc., 2014. All rights reserved.