



 **Brooks**
Utility Products

WARM UP BOARDS



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In today's AMI/Smart Meter environment, metering personnel face new challenges from testing and validating new technologies in scale to performing first or last reads on a large population of meters. Brooks Utility Products Meter Warm Up Boards incorporate the tools needed to verify proper operation by providing a range of voltages, an optional variable load and the ability to operate remote disconnect functionality to a variety of meter forms. Enabling meter to network communication checks prior to deployment without consuming valuable and expensive calibration/watthour standard resources.

METER QUALIFICATION

Prior to deployment, most utility meter service organizations subject individual meters to a series of qualification tests. Processing a large number of meters can be achieved quickly and inexpensively with a warm up board. Among the tests that can be performed: power registration, demand reset, program changes, event alarms, bi-directional performance, load profiling, firmware upgrades and new revision changes, head-end system and network verification, and many other tests.

METERING SIMULATION

Users can create the proper electrical environment prior to the field release of software and hardware in a simulated manner as close to the actual electrical environment that equipment will be subjected to the field. This is an especially critical capability when the IT Department needs remote access to the meter lab to simulate network events and functions. The form selection, voltage selection, variable load, and remote disconnect functions are expertly designed to achieve real world operating conditions.

METER MAINTENANCE AND SOFTWARE UPDATES

Following meter deployment organizations have found warm up boards to be effective in maintaining and troubleshooting meter and AMI issues. While our portable devices can assist the metering professional in the field, the larger warm up boards can be used as a cost effective option for more time intensive maintenance and troubleshooting activities.



SAFETY



SECURITY



RELIABILITY

A-FRAME MULTI-POSITION WARM UP BOARDS

The A-Frame slant top board, available in single or double sided configurations, incorporate a universal metering block and when coupled with our voltage switch can accommodate any ANSI meter form. Mounted on 6" casters, the board can easily be moved to the desired position in your shop. Each warm up board can be configured to meet your desired number of meter positions, control configurations, test voltages, meter forms, load requirements, and remote disconnect testing needs.

All Voltages, Multiple Forms, Variable Load, and Remote Disconnect:

ONE CONTROL PER METER POSITION	ONE CONTROL PER THREE METER POSITIONS
804-3904-080	804-3904-070
804-3904-081	804-3904-071
804-3904-082	804-3904-072
804-3904-083	804-3904-073



TABLE TOP WARM UP BOARDS

Brooks table top warm up boards are available in single and multiple position configurations. Offering the same capabilities as our larger A-frame models, the table top models increase the flexibility and mobility with a smaller package. Each table top warm up board can be configured to meet your desired number of positions (up to four), control configurations, test voltages, meter forms, load requirements, and remote disconnect testing needs.

All Voltages, Multiple Forms:

801-3902-090	Single Position, Variable Load, and Remote Disconnect
805-3903-060	4 Position, Variable Load, and Remote Disconnect
805-3903-067	4 Position, 5 Amp Load, and Remote Disconnect



PORTABLE WARM UP STANDS

For your field maintenance needs, Brooks offers a cost effective range of portable warm up stands that are suited for use in service trucks. The portable stands provide single meter testing capabilities for dedicated meter forms by providing the appropriate service voltage and an optional load.

Variations Include:

807-3905-001	Forms 2S, 3S, 4S, 5S, 12/25S, With Load
807-3905-002	Forms 2S, 3S, 5S, 12/25S and 14/16S, No Load
807-3905-4640	Form 2S, 3S, 5S, 12S, 14/16S, With Load
807-3905-2212	Form 2S Only, 240V, No Load
807-3905-2406	Form 8/9S Only, No Load



WARM UP BOARD STANDARD FEATURES

- 14 Gauge G-90 Galvanized Steel, Powder Coated Gray Finish
- Landis & Gyr HQ-type Clamp Jaw Lever Bypass Block
- Dead-Front Safety Shield for Additional Safety
- Spring-Loaded Interlock Kill Switch to Reduce Shock Hazards
- Main Breaker and Control Fuses Protect Metering Equipment
- UL-Listed Components Rated to 600V

WARM UP BOARD GENERAL SPECIFICATIONS

Voltage Input: 120± 10% Single-Phase (120/208 Network)

Voltage Output: 120, 208, 240, 277, 480V

ANSI Meter Forms Supported: 1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S, 9S, 10S, 11S, 12S, 13S, 14S, 15S, 16S, 17S, 25S, 26S, 35S, 36S, 45S

2.5 Amp / 5.0 Amp Selectable Load

Up to 30 Amp Variable Load (Nominal)

Forward / Reverse Load

Remote Disconnect Test Functionality

Brooks Warm Up Boards and Portable Warm Up Stands are configured to meet your needs. Please consult your Brooks representative for information on standard and non-standard configuration options.



43035 W 9 Mile Road
Novi, MI 48375
1.888.687.3008
brooksutility.com