

## Safety precautions with the use of the Form 45S, 45A, and 56S ALPHA<sup>®</sup> meters

Instructional leaflet

IL42-4041B

### **WARNING**

Read this instructional leaflet (IL) in its entirety.

In addition to the safety concerns that apply to all ANSI meter Form factors, Forms 45S, 45A, and 56A present additional risks. These risks apply to all original ALPHA (A1), ALPHA Plus<sup>®</sup> (A1+), and A3 ALPHA (A3) meters. Failure to follow safety procedures and precautions when servicing these meters as well as your authorized utility procedures can result in severe personal injury or death.

Honeywell ALPHA meters present risks of electrical shock when the cover is removed from energized meters. It is important to assess the potential hazards after removing the meter cover. For Forms 45S, 45A, and 56S meters in particular, the safety concerns are that the following will be energized at line potential prior to disconnection of electrical power:

- the meter battery terminals
- the circuit board electronics
- the circuit board electronics of any installed option board and any internal antenna or other electrical extension of any installed option board

**Safety procedure:** Disconnect electrical power prior to removing the meter cover and follow authorized utility procedures.

The A3 ALPHA meter technical manual (TM42-2190C or later) contains additional information regarding the installation and servicing of your meter. Contact your local Honeywell electricity meter support representative or call the support line at 1-800-338-5251 to obtain a copy of the manual. These additional safety concerns apply to:

- Form 45S: any application in which socket jaw 7 is not grounded.
- Form 45A: any application in which when the equivalent terminal to the 45S socket jaw 7 is not grounded (A-base voltage terminal #6 as numbered from left-to-right).
- Form 56S: any application in which socket jaw 16 is not grounded.

**Safety procedure:** Read and follow technical manual procedures. Disconnect electrical power prior to removing the meter cover and follow authorized utility procedures.

These safety concerns include but are not necessarily limited to the following:

- 3-wire delta applications
- dual single phase “star” configurations (also called 5-wire, 2-phase)
- 4-wire delta applications in which the high leg is not tied to Phase C

### **SAFETY PROCEDURES FOR UTILITY PERSONNEL**

For utility personnel, Honeywell recommends the following:

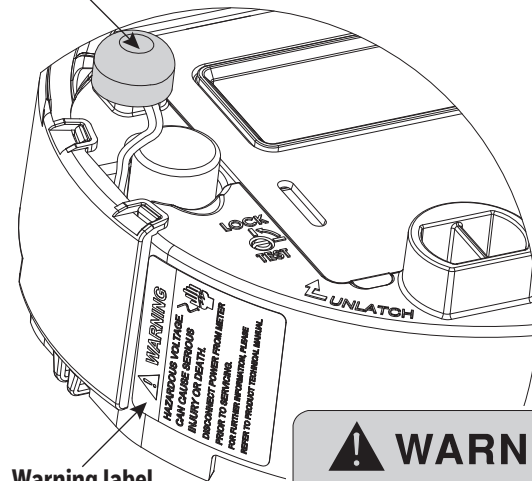
- Maintain employee safety procedures on the operation and maintenance of ANSI ALPHA meter Forms 45S, 45A and 56S meters.

# HONEYWELL PROCEDURES REGARDING THESE METER FORMS

For these ANSI ALPHA meter forms, Honeywell will perform the following:

- Install a warning label located near the battery terminal.
- Install a rubber “boot” over the port of the battery terminals. This rubber boot is designed to be installed regardless of whether the battery is installed in the meter.

Boot over battery terminals



Warning label



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