Veris Application Note

Testing the Pulse Output of Veris H81xx and H84xx Meters

⚠ DANGER ⚡

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

• Follow safe electrical work practices. See NFPA 70E in the USA, or applicable local codes.
• This equipment must only be installed and serviced by qualified electrical personnel.
• Read, understand and follow the instructions before installing this product.
• Turn off all power supplying equipment before working on or inside the equipment.
• Use a properly rated voltage sensing device to confirm power is off.
  DO NOT DEPEND ON THIS PRODUCT FOR VOLTAGE INDICATION
• Only install this product on insulated conductors.

Failure to follow these instructions will result in death or serious injury.

The information provided herein is intended to supplement the knowledge required of an electrician trained in high voltage installations. There is no intent to foresee all possible variables in individual situations, nor to provide all training needed to perform these tasks. The installer is ultimately responsible to assure that a particular installation will be and remain safe and operable under the specific conditions encountered.

Introduction

The H81xx and H84xx energy meters have a pulse output feature. This feature can easily be checked to verify proper functioning of the meter.

Board Diagrams

H81xx

Pulse Weight Slide Switch

Pulse Contact Terminals

H84xx

Pulse Contact Terminals
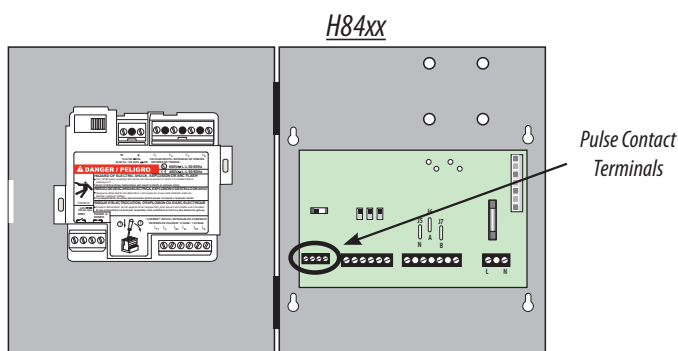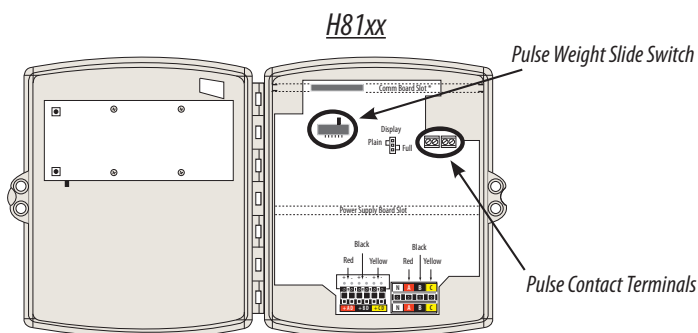
Procedure

1. Determine the pulse settings.

   H81xx: This is determined by the slide switch on the main circuit board. Possible values are 1.0, 0.5, 0.25, and 0.1 kWh/pulse.

   H84xx:

   a. Press button 4 (→) until one of the buttons says 'Setup' above it.

   b. Press Setup Button. Unit should ask for password and show five dashes.

   c. Press '+' button. All dashes should become zeroes. Press 'OK' button.

   d. Press → button until you see a button marked 'Pulse'. Press 'Pulse' button.

   e. The value before 'MSEC' on line 1 is the pulse width. The value before 'KWH/P' on line 2 is the pulse weight.

2. Set pulse weight to 1.0. The pulse weight determines when you should get a pulse. For the purposes of this test the value should be set at '1.0'. Make a note of your original setting so the meter can be restored to this after the test.

   H81xx: Adjust the Pulse Weight Slide Switch to the 1.0 position.

   H84xx: Still on the pulse menu from step 1. The number on the first line should be blinking. Press the '+' until that number reads '500 or 1000.' Press the 'OK' button once. The value on line 2 should start blinking. Press the '+' button until it reads '1' then press 'OK' twice and then the left most button until you return to the main display screen.

3. Configure the multimeter to read resistance.

4. Locate the pulse output terminals (marked in the above diagrams).

5. Remove the wires from the pulse output terminals, insert short lengths of wire for testing, and then re-tighten the screws. Clip or hold the probe tips to the test wire ends. You should see the resistance value drop toward zero every time the number to the left of the decimal point in the kWh value changes.

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