



OPERATING INSTRUCTIONS – CATALOG NO. 621 Light Weight Meter Test Kit

NOTE: If installing a Radian Standard into the Cat. 621 test kit, see connection and installation diagram part number 621-150 supplied with these instructions.

Before connecting any leads to the Cat 621:

- 1) Move LOW BURDEN/HIGH BURDEN switch to “LOW BURDEN” position.
- 2) Move 100% P.F./ 50% P.F. switch to “100% P.F.” position.
- 3) Rotate current “ADJUST” fully counter clockwise.
- 4) Set current AMPERES to selected test value of current.
- 5) Connect current and potential leads to the Cat 621 Test Kit and meter under test.
- 6) Note that the potential that is externally wired into the unit will automatically be sensed so long as that potential is either 120V, 240V, 277V, or 480V and within a tolerance band of +/-10%. If the potential being wired to the unit does not fall within these bands, the unit will not operate properly.

CAUTION: NO SWITCHING OR CHANGING OF CURRENT LEADS SHOULD BE MADE UNLESS THE CURRENT “ADJUST” IS FIRST ROTATED FULLY COUNTER CLOCKWISE.

CAUTION: CONNECT THE CURRENT CABLES TO THE METER BEFORE ENERGIZING THE UNIT. FAILURE TO DO SO COULD CAUSE DAMAGE OR CREATE AN UNSAFE CONDITION.

Make potential and current connections to two-wire energy source and meter under test. Connect the current meter (clamp) to LOAD output wire at current binding post(s) of the Cat 621.

Rotate current “ADJUST” clockwise until the current meter reads desired amperage.

Run meter test according to your company’s Meter Testing Procedures.

For lagging power-factor test, move the power-factor switch to the 50% P.F. position.

For high test burdens, usually at 50 amperes with all three phase currents turned “ON” and the current “ADJUST” at full clockwise rotation, the Cat 621 may not deliver full scale value at the LOW-BURDEN setting. To correct for this, reduce the current “ADJUST” to zero and move the “BURDEN” switch to HIGH-BURDEN, then increase current “ADJUST” until the desired current is reached.



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Figure 1: Example connections with Form 1S meter:

