Correct operation of MPS and FPS relays depends on accurate polarity. Markings on current transformers (CT) and potential transformers (PT) have been occasionally misapplied from the factory. The tests below will assist in confirming polarity in the field.

Briefly connect the battery to the wire going through the high side of the CT window (shown with a • mark or “H1” label). Measure with + polarity of the meter on the X1 or • marked secondary lead of the CT.

Example 4200 : 120 Transformer

116 V on primary = 3.3 V on secondary Vm will read 116 + 3.3 V if connected as shown = 119.3
If the polarity mark is incorrect, the reading will be 112.7.