g GE Canada
Electronic Products Repair

Test Instructions for

0471L0223 G001
Device Number

Voltage sensor
Description of Device

Originated By: Dennis Cully
Typed Name

Date: October 14, 2005
mm/dd/yy

Approved By: Lucio carrescia
Signature

Approval Date: October 14, 2005
mm/dd/yy

TEST INSTRUCTIONS

PREVIOUS REVISION SHEET

0471L0223 G001
Device Number
Voltage sensor
Description of Device

Originated By	**Date mm/dd/yy**	**Description of change**
Hank Keyzers	March 08, 1976	Created test instructions for Voltage sensor 0471L0223 G001
Dennis Cully	April 23, 1996	Created cover and revision sheet
Dennis Cully	October 14, 2005	Revised the document to the latest format and added the upgrade section
C. Wade	9/13/2012	Added asset number H188999 to section 3-a and added 5VDC Supply to 3-3,

TEST INSTRUCTIONS

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Location: Book or file File

Voltage sensor
0471L0223 G001
Date: October 14, 2005

1. PURPOSE:

   a. Static and dynamic test procedures for Voltage sensor 0471L0223 G001

2. ELEMENTARY:

   a. S&C data book 1188 section 223 drawing number 0238A2297

3. EQUIPMENT:

   a. Universal 51 pin test jig H188999 or equivalent.
   b. Multi meter HP 34401A TL# 00321 or equivalent.
   c. Oscilloscope Fluke PM3994B TL# 00666 or equivalent.
   d. Interface card TL# 00439 or equivalent.
   e. Plus & Negative 50VDC Power Supply and a 5 VDC Power Supply.
   f. Function generator HP 8116A TL# 00793 or equivalent.

4. SET UP:

   a. Connect
      i. P50VDC power supply to pin24.
      ii. N50VDC power supply to pin30.
      iii. PN power supply common to COM.
      iv. Output of function generator to pin07 & 36
   b. Set
      i. P50VDC power supply to 50.0VDC.
      ii. N50VDC power supply to 50.0VDC.
      iii. The output of the function generator @ ±5 volts square wave 1KHZ.
      iv. Turn off all power supplies.
   c. Insert UUT in the 51-pin slot of the universal test jig.

5. PROCEDURE:

   a. Power supply
      i. Turn on the PN50VDC Power Supply.
      ii. Measure P14.5 ± 800MVDC @ pin27
      iii. Measure N14.5 ± 800MVDC @ pin29
      iv. Measure P4.8VDC @ pin28.
   b. Potentiometer setting
      i. Turn all R1 & R14 potentiometers CW.
      ii. Measure P4.62VDC @ pins 04, 10, 16, 35 & 46.
      iii. Turn all R1 & R14 potentiometers CCW.

iv. Measure zero volts @ pins 04, 10, 16, 35 & 46.

c. Logic output
   i. Turn the function generator on.
   ii. Observe that all the lamps are illuminated on the interface card.
   iii. Place channel one of the oscilloscope on the output of the function generator.
   iv. Place channel two of the oscilloscope on pin33 and observe the square wave signal.
   v. Place channel three of the oscilloscope on pin32 and observe the square wave signal.
   vi. Move channel two to pin22 and observe the square wave signal.
   vii. Move channel three to pin21 and observe the square wave signal.
   viii. Move channel two to pin23 and observe the square wave signal.
   ix. Move channel three to pin31 and observe the square wave signal.
   x. Move channel two to pin40 and observe the square wave signal.
   xi. Move channel three to pin41 and observe the square wave signal.
   xii. Move channel two to pin44 and observe the square wave signal.
   xiii. Move channel three to pin42 and observe the square wave signal.

6. UPGRADES:

   a. There are no upgrades to this card

7. END.