TESTING PROCEDURE FOR ZIVERCOM
6RTV RELAY
CONTENTS:

1) COMMUNICATION
2) CONFIGURATION

1. COMMUNICATION
   a. Click ‘ZIV’ icon in Desktop

B. Then Give user name and password

User name : zivercom

Password : ziv
C. Click The IEDs and go to installations:
D. Click sub_pruebas.sbs and goto Edit:

E. Select communication port, Data bits and stop bits:
F. Click sub_pruebas.sbs and go to communication:

G. Select Address 0 and click OK:
2) CONFIGURATION

A. Click test:

B. Click setting:
c. Click Normal setting and change the voltage, frequency and current:

D. Click Voltage regulator Configuration and units in main display Set secondary:
F. Click voltage Regulator control and change Dead band, Time delay type and T1, T2 Time:

G. Click Compensations and change Line drop compensation Type selector, R parameter and X parameter:
Line drop compensation LCD R/X Calculate Having one Formula:

\[ \text{LCD R} = V_{\text{nominal}} + \left( \frac{I_{\text{local}}}{I_{\text{nominal}}} \right) R \cos \phi \]

\[ \text{LCD X} = V_{\text{nominal}} - \left( \frac{I_{\text{local}}}{I_{\text{nominal}}} \right) R \sin \phi \]

Example:

\[ \text{LDC-R} = 6 \text{ V} ; \text{LDC-X} = 0 \text{ V} ; \phi = 0^\circ ; V_n = 120 \text{ V} ; I_n = 5 \text{ A} ; I_{\text{local}} = 2 \text{ A} \]
\[ V_{\text{COM}} = 120 + \left( \frac{2}{5} \right) * 6 \cos 0^\circ = 122.4 \text{ V} \]

So, Now our Nominal Voltage is 122.4V

Our Dead band is 1%

So, lower operate 123.6V

Raise operate 121.2V

H. Goto user’s setting and click ANALOGS and Set Under, over voltage and over current level:

![Image of software settings]
I. Click Time and Set Under, over voltage and over current time:

J. Click configuration and open Edit:
K. Click I/O logic and open output:

L. Configure Digital Output:

1. Digital Output 1:
2. Digital Output 2:

![Digital Output 2 Diagram]

3. Digital Output 3:

![Digital Output 3 Diagram]
4. Digital Output 4:

M. Click I/O logic and open LEDs:
N. Configure Led:

1. LED 1:

2. LED 2:
3. LED 3:

![LED 3 Diagram]

4. LED 4:

![LED 4 Diagram]
5. LED P1 Red:

6. LED P1 Green:
7. LED P2 Red:

[Image of LED P2 Red diagram]

8. LED P3 Red:

[Image of LED P3 Red diagram]
O. Click I/O logic and open input:

P. Configure Digital input:

1. Digital Input 1:
2. Digital Input 2:

3. Digital Input 3:
4. Digital Input 4:

5. Digital Input 5:
6. Digital Input 6:

Q. Send the data to Relay: