

2SY212A Software

Synchronism Check Relay

relay monitoring systems pty ltd

Advanced Protection Devices



User Guide



Test Manual



Relay Software



µMATRIXwin



2SY212A Relay Software

Links to Other Documents

User Guide: http://www.rmspl.com.au/userguide/2sy212_user_guide.pdf

User Guide: http://www.rmspl.com.au/userguide/2sy212-s_user_guide.pdf

Software Downloads: <http://www.rmspl.com.au/digital/umatrix.htm>

Version Control

| Issue | Date | Summary of changes |
|-------|------------|--------------------|
| A | 17/12/2010 | Initial release |
| B | | |
| C | | |
| D | | |
| E | | |
| F | | |

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| Author | Checked & Registered | .pdf file created | Released |
|--------|----------------------|-------------------|----------|
| ARF | DG | DG | |



3.0 DESCRIPTION – UMX2SY212A.UMX

3.1 Standard Features

The 2SY212-S provide a range of standard features as described in the RMS Technical Bulletins that may be downloaded from the RMS website.

3.2 Special Features of this Software UMX Version

The A UMX software supports the standard 2SY212 features.



4.0 USER INTERFACE

Refer to the μ MATRIX Users Guide for detailed instructions on the operation of the user interface.

To download a PDF version of the guide uMatrix: www.rmspl.com.au/digital/umatrixinfo.pdf

To download a PDF version of the guide uMatrix-S: www.rmspl.com.au/digital/umatrix-s_info.pdf

To download USB VCP drivers for uMATRIX-S: www.rmspl.com.au/umatrix.htm

5.0 LOAD SOFTWARE

Loading a UMX requires at least the following:

A PC with Windows 2000 or later and at least one USB (uMatrix-S) port.

(Note: USB comms require drivers to be installed on your PC. See section 4.0 downloads.)

UMatrixWin software.

A USB cable.

A general understanding of how UMX and UMP files work with the relay.

Settable parameters will be overwritten by loading a new UMX file. They can however, be saved to a UMP file and then returned to the relay later. To learn how to do this, refer to the uMatrix User guide.

5.1 Loading the UMX

Before loading the UMX2SY212A software, ensure that it is compatible with your hardware.

Download the compatibility list from the RMS website at:

www.rmspl.com.au/digital/compatibility.pdf

Ensure that the bios version in the relay matches the table in section 2.0 of this document. (If the bios version is different, you may not be able to load this UMX. Contact RMS for support.)

Load the UMX via the front panel COM port using the 'uMatrixWin' software.

Ensure that the UMX version matches the table in section 2.0.

To interrogate for versions, press 'SET' and 'DATA' buttons simultaneously, then select 'Version Page'. Alternatively, use uMatrixWin – Options – Utilities.

Check versions

5.2 Customer Default UMP

Load customer UMP file as per the Job Card. If no UMP file is requested, write N/A in check box.

UMP file name

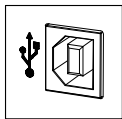
The Relay is now ready for field use.

SOFTWARE INSTALLED BY

DATE :

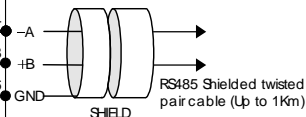
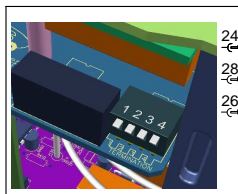
6.0 CONNECTION DIAGRAM

*Note: The status inputs & some relay outputs are assigned by the software (UMX) loaded on the relay.
 Shown here are the standard assignments of the A UMX. Other UMX versions may differ. Consult the UMX data sheets for specific I/O assignments.



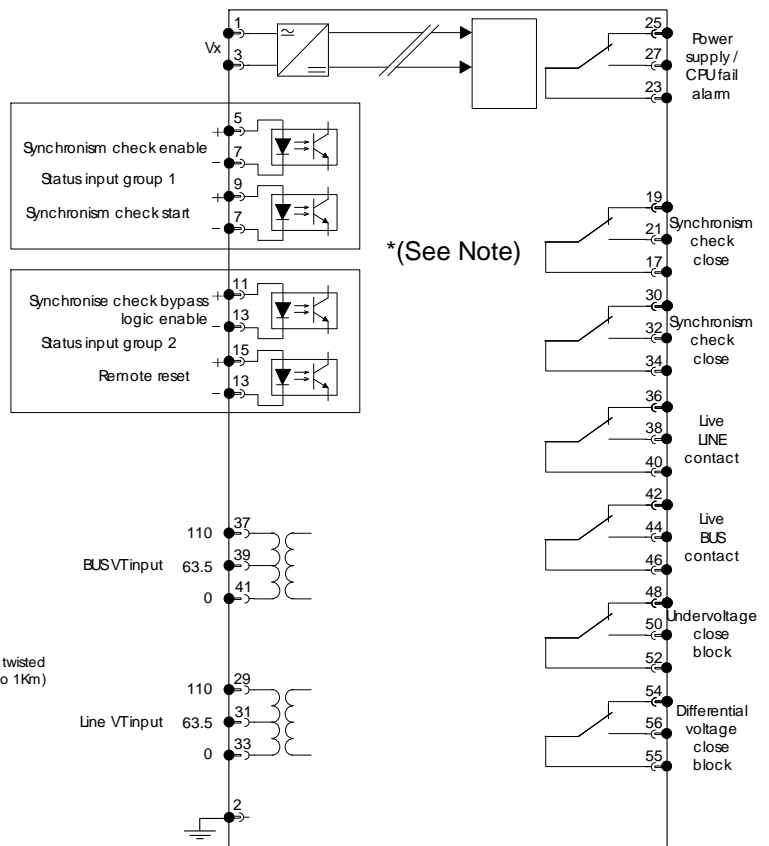
FRONT PANEL
 USB PROGRAMMING
 PORT

SCADA COMMUNICATIONS PORT
 RS485 Network port

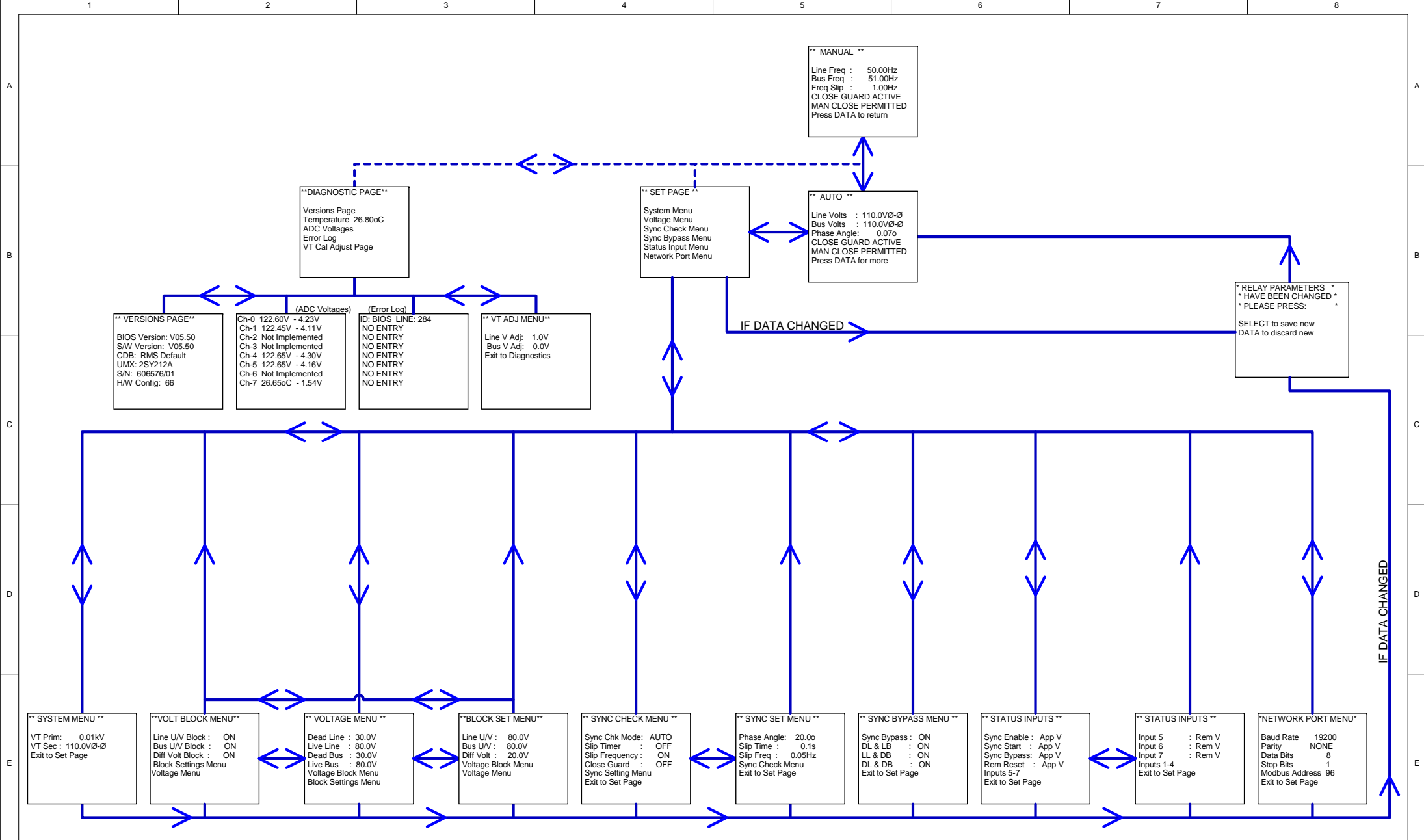


To other uMATRIX relays (Up to 32 units)
 Invoke terminating 120R resistor to end of BUS relay only.
 To do this set SW100-3&4 ON.


Invoke BIAS resistors for single relay connection only.
 To do this set SW100-1&2 ON.



2SY212-Swiring diagram - Relay shown in de-energised condition



| | | | |
|--|--|--------------|--|
| MATERIAL: See* for Materials List | | FINISH: N.A. | |
| Unless otherwise stated: | | | |
| SMD Resistors are 1/8W 1% 0805 Metal Film | | | |
| SMD Capacitors <100P are 50V 0805 NPO | | | |
| SMD Capacitors >100P and < 1n0 are 100V 0805 NPO | | | |
| SMD Capacitors >1n0 and < 1u0 are 50V 0805 X7R | | | |

| | | | | | | | |
|---|------------|---|--|------------------------|--|---------------------------|--|
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| | | TYPE No. 2SY212A (RMS DEFAULT) | | MENU STRUCTURE | | V05.50 0550 | |
| DRAWN | DATE | 22SY212_A_MENU | | SHEET:1 | | OF:1 | |
| D.W.B | 08/09/2009 | SCALE: D.N.S | | RMS-A3.SCHDOT Iss A | | 3rd Angle projection | |
| SHEET: A3 | | L:\ENG\Projects\2sy212\Firmware\Specification\2SY212_A_MENU_0550.schdoc | | | | | |