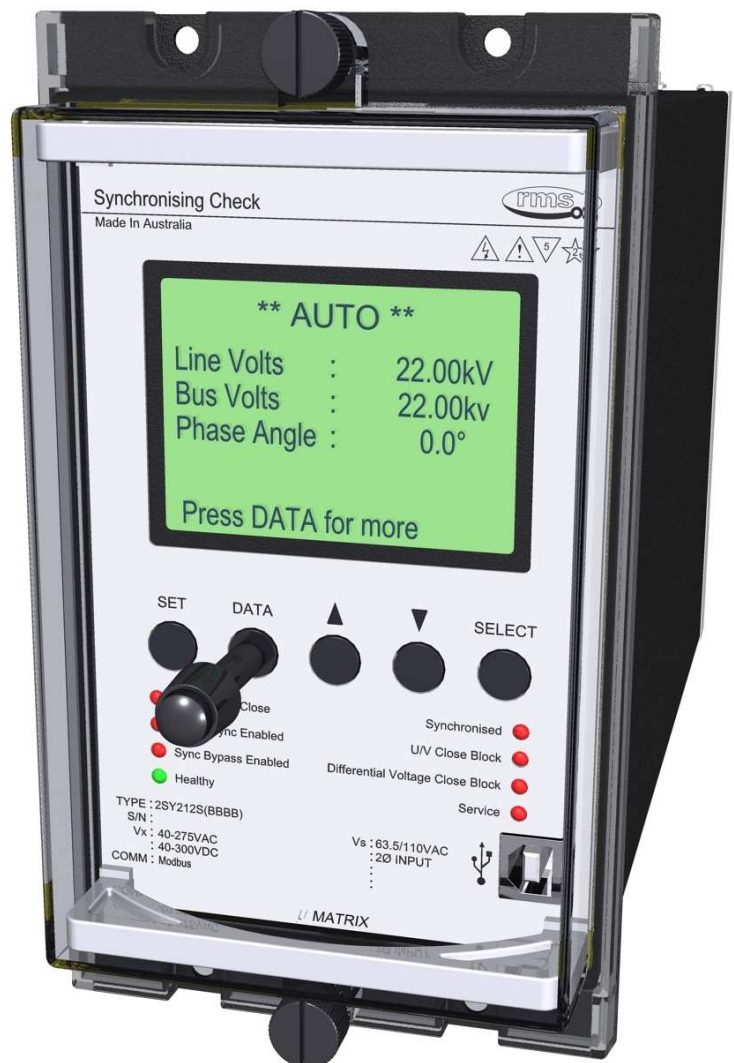


# 2SY212A Software

## 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

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User Guide: [http://www.rmspl.com.au/userguide/2sy212\\_user\\_guide.pdf](http://www.rmspl.com.au/userguide/2sy212_user_guide.pdf)

User Guide: [http://www.rmspl.com.au/userguide/2sy212-s\\_user\\_guide.pdf](http://www.rmspl.com.au/userguide/2sy212-s_user_guide.pdf)

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

## Version Control

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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  $\mu$ 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](http://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](http://www.rmspl.com.au/digital/umatrix-s_info.pdf)

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

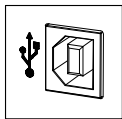
The Relay is now ready for field use.

SOFTWARE INSTALLED BY

DATE :

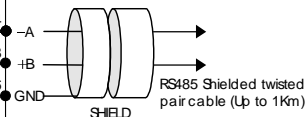
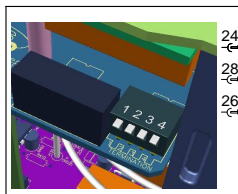
### 6.0 CONNECTION DIAGRAM

\*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.



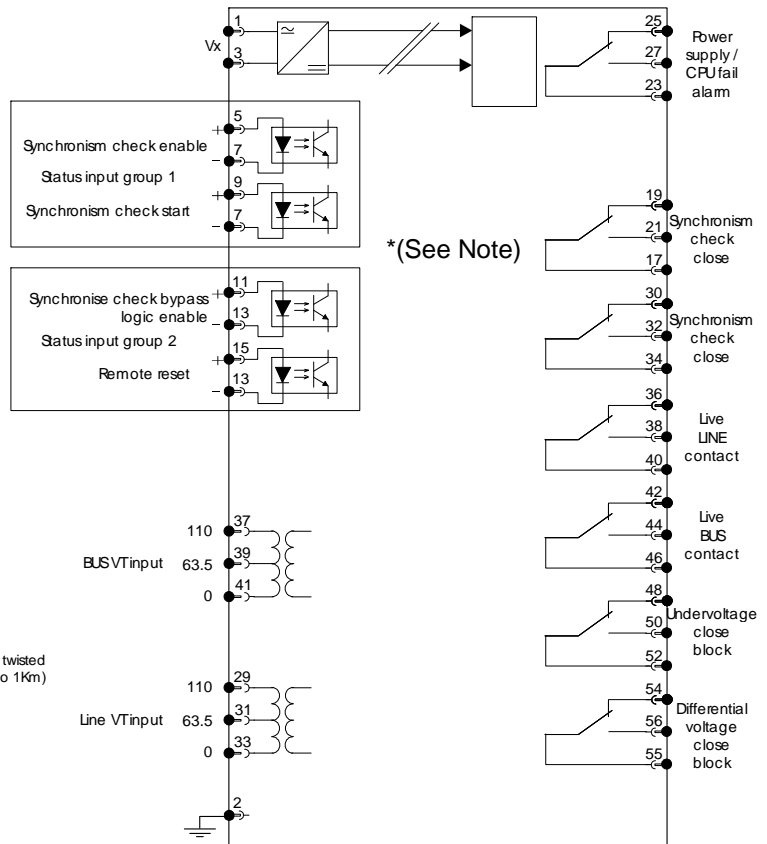
FRONT PANEL  
 USB PROGRAMMING  
 PORT

SCADA COMMUNICATIONS PORT  
 RS485 Network port



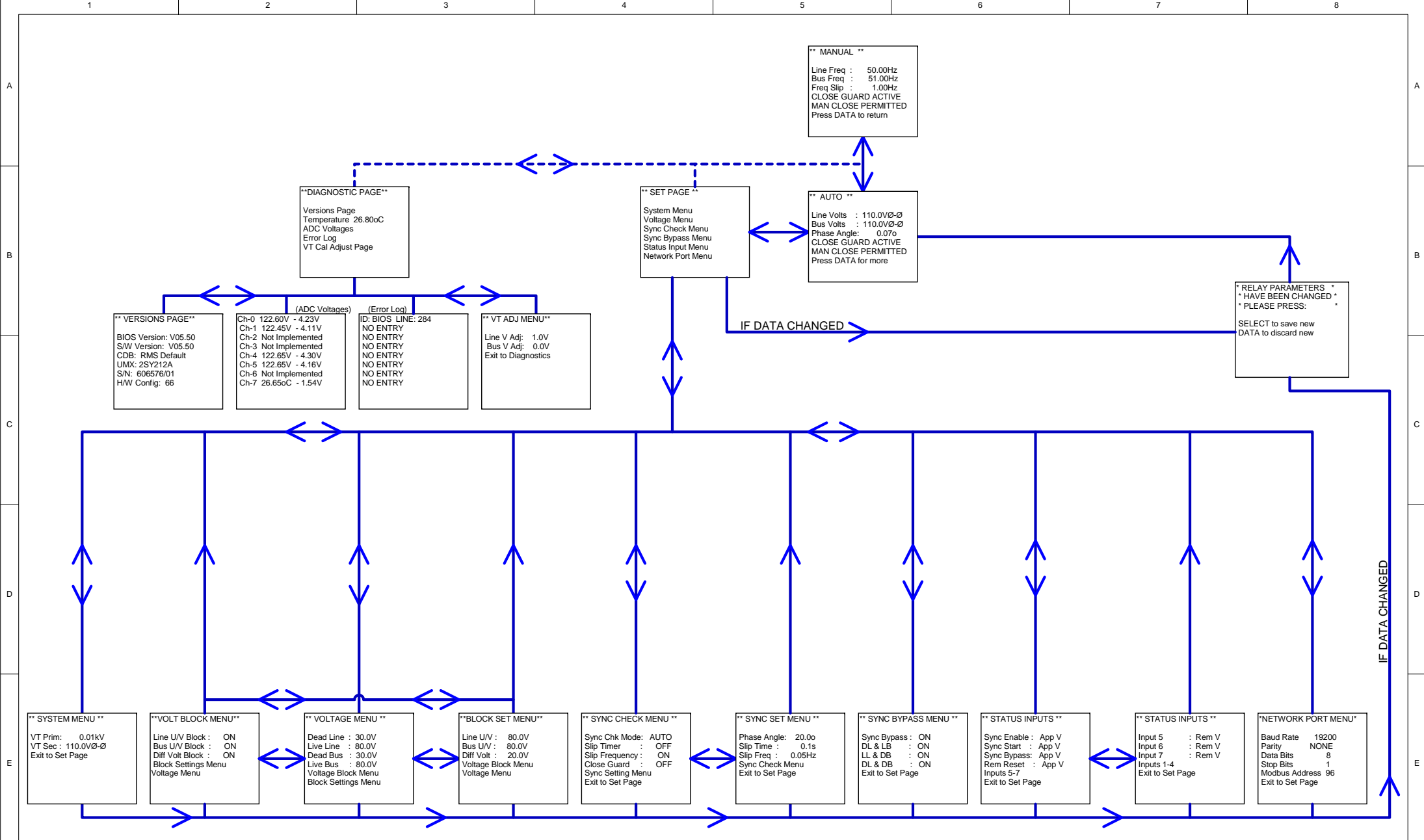
To other uMATRIX relays (Up to 32 units)  
 Invoke terminating 120R resistor to end of BUS relay only.  
 To do this set SW100-3&4 ON.

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




\*(See Note)

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: D.W.B		DATE: 08/09/2009		22SY212_A_MENU		SHEET: 1 OF 1	
SHEET: A3		SCALE: D.N.S		RMS-A3.SCHDOT Iss A		3rd Angle projection	