



2H34A Software

Multi Stage Frequency Relay

relay monitoring systems pty ltd

Advanced Protection Devices



User Guide



Test Manual



Relay Software



µMATRIXwin

2H34A Relay Software

Links to Other Documents

User Guide: http://www.rmspl.com.au/userguide/2H34_user_guide.pdf

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

Version Control

| Issue | Date | Summary of changes |
|-------|------------|--------------------------|
| A | 05/06/2002 | Initial issue. |
| B | 10/10/2002 | Document layout changed |
| C | 31/07/2003 | New format |
| D | 06/10/03 | OV/UV alarm relays added |
| E | 25/02/2004 | UMX update |

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

3.0 DESCRIPTION – UMX2H034A.UMX

3.1 Standard Features

The 2H34 provides a range of standard features as described in the RMS Technical Bulletin that may be downloaded from:

<http://www.rmspl.com.au/handbook/2h34.pdf>

3.2 Special Features of this Software UMX Version

The stage time delay is initiated when either the frequency set point or the df/dt set point is reached.

The interaction of the frequency threshold and the df/dt setting is specific to the A UMX as follows:

OR Logic A UMX Firmware using μ MATRIXwin

Stage Start

The stage time delay is initiated when either the frequency set point or the df/dt set point is reached.

Stage Time Out

Provided the start condition is maintained for the duration of the pre set time delay, the stage output contact will pick up and the front panel LED indicator is illuminated. The output contact is self-reset once the start condition is removed.

Stage Output Reset

Reset of the start condition is determined by the hysteresis and the reset time settings. For a stage configured as underfrequency detection, reset will occur at the set point plus the hysteresis setting once this condition has been maintained for the duration of the reset delay.

Stage Flag Reset

The LED indicator is latched and can be reset at the front panel using the reset button. Alternatively, flag reset can be achieved remotely via the programming port or the SCADA port.

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:
www.rmspl.com.au/digital/uMATRIXInfo.pdf

To download further μ MATRIX software & documentation:
www.rmspl.com.au/uMATRIX.htm

5.0 LOAD SOFTWARE

Loading a UMX requires at least the following:
A PC with Windows 98 or later and at least one COM port.
UMatrixWin software.
The correct serial 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 Userguide.

5.1 Loading the UMX

Before loading the UMX2H034A 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



