

# **USER GUIDE**

## **MS1822 MULTI-STATION RWT AUTOMATION INTERFACE MODULE**

Version 1.2

For use with the Endec SE1822 and Digital Endec 3644 Emergency Alert System  
Encoder/Decoders

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## 1. Product Description

The DME Multi-station Automation Interface consists of a microprocessor based communications device that converts a normally open switch contact or logic low from your automation equipment or other source into the activation of an RWT by one of four possible pre-programmed stations from your Sage-Endec SE1822 or Digital Endec 3644. The device consists of an individual station automation input terminal block and a LED indicator to show data transmission. The initiation of an RWT is achieved by momentarily shorting the terminals of the input terminal block on the rear of the device. Power for the Interface Module is derived from the Sage-Endec db9 connector (pin 9). One MS-1822 is required for each station programmed into the Endec, and one COM port is required for each MS-1822.

## 2. Installation and Settings

**Note:** If an RC1 hand held remote has been or is connected to the unit and is operational, the jumper placement in the following steps has already been enabled.

**SE1822 only:** Open the printer cover plate and lift the printer slider plate up (rather than pulling it forward). Locate the JP16 jumper terminals underneath the metal cup that holds the paper (near the right hand edge). Make sure there is a jumper placed on JP16 as this enables power to pin 9 of the Com port connectors, and is used to power the LP1822. Refer to section 12 of your Endec user manual.

Install the Multi-station Automation Interface modules in either the Computer (front panel), COM2, COM3, or COM6 db9 ports on your Sage-Endec, and tighten the retaining screws to avoid accidental pull out. The MS1822 operates at 9600 baud, and COM 2 and 6 are set to 9600 baud by default and cannot be changed. If the Computer or COM 3 ports are used, you may have to configure the port to 9600 baud as their default settings are 1200 baud. Configure using *menu.devices.port.baud*.

**3644 Digital:** To enable the required DC voltage to pin 9 of the COM ports, remove the top cover of the Endec by removing the six retaining screws and slide the cover plate toward the rear of the unit. Locate "JP1" on the main green PCB covering the bottom of the case. "JP1" is located towards the rear left corner of the PCB. Do not confuse this "JP1" with the JP1 on the red daughter card. You will find that the jumper is placed on only one of the pins by factory default. Remove the jumper and place it on both pins of "JP1" and replace the cover. Refer to section 13.2 of your Endec 3644 Digital User Guide and Reference Manual.

The selected COM port must be configured for remote control operation. To do this go to *menu.device.port.type.hand control*, where "port" is "COM X". Note: the only allowable ports for this device on the 3644 Digital are COM 3-6. These ports must be set to 9600 baud using *menu.devices.port.baud*.

**The User password must be 1111**, the factory default password. There can be no exceptions without custom programming of the Interface Module. Custom programming is available at an additional charge. Please contact DME if custom programming is desired.

To change the User password to 1111, use the *menu.change password* command on the Endec. You will need the administrator's password to do this change, and if it is not available consult section 14.3 of the SE1822 Endec User Guide or section 12.11 in the 3644 Digital Endec User Guide.

For multi-station operation using more than one MS1822 module, the Sage-Endec must be set up for MSRP (multi station relay panel) use for proper operation with the Interface Modules. Up to four stations may be assigned and enabled using *menu.msrp.station#.call sign* and *menu.msrp.station#.enable*. See sections 11.52-11.56 in the SE1822 Sage-Endec User Guide or section 10 on the Digital 3644 User Guide for details.

### **3. Operation**

A contact closure or logic low between the terminals on the rear of the Interface Module will initiate the RWT sequence for the station that module controls. (The right hand terminal of the 2 station terminal block is logic high or + as viewed from the rear of the interface module). It takes approximately 3-4 seconds for the data to initiate the test, so take this into account when designing your programming sequences. A green LED indicator lights showing the data string is being transmitted to the Endec. At the conclusion of data transmission the Interface Module resets and waits for the next contact closure or logic low.

### **4. Supplied Materials**

- MS1822 RWT Automation Interface Module
- This User Guide

### **5. Warranty**

All materials and workmanship are warranted for a period of one year from the date of purchase. Damages incurred by misapplication, carelessness, introduction of foreign materials or extraneous voltages into the enclosure or circuitry, or damages caused by natural disaster are not covered under this warranty.

### **6. Technical Support**

If you have questions, experience difficulties with the product or require further information please contact DME at:

805-987-7881 or 800-249-0487

Or

Contact technical support at:  
support@DMEngineering.com

Trademark Information:

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