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Application Note APNT-0001 Adapting the Zoom Fax/Modem V.34X Plus (Model 2836) for use with Monroe's R-149 and R-153 Timers

We believe the Zoom Model 2836 modem will meet current and future requirements for these Series 3000 timers. This external modem is readily available at a reasonable price.

Timer Preparation:

Two preliminary steps are necessary with the R-149 timer. These steps are not necessary with the R-153 timer:

- 1) Check the firmware version. It should be either version GERS80134-3.04 or PSI V1.15 or higher. If not, contact Monroe Electronics. To check the firmware version:
 - a) ENTER or EXIT to the "SET EDT VUE LOG LST" menu
 - b) Press VUE
 - c) Press VER
 - d) Note firmware version and exit back.
- 2) Check the communication protocol:
 - a) At the opening menu, select SET
 - b) Press CMP
 - c) Proper protocol is "NON, 8, 1, 1200" (1200 BAUD)

Modem Preparation:

Connect the Zoom Model 2836 to your computer's communication (COM) port and invoke your data communication program (examples: COMit™, PROCOMM, BitCom, etc.). At the prompt (usually a "blink-block" cursor), type the following six lines of AT commands. Use all upper case letters and ENTER (ຝ) at the end of each line. An "OK" should return following each line:

AT&F%C0&C1&D2
AT&Q6 +MS=1,0,1200,1200
AT S95=0
AT S0=1
AT&W0
AT&Y0
AT&V (optional)

Disconnect the modem from the computer. It is now programmed with a new set of values to allow it to be transported to and used with your timer.

Software Change:

In the on-screen Location, Edit menu, change the Modem String to:

AT&F&C1&D2E0Q0V1X1 S0=0 S7=60 S8=2 H1

This string should work with high-speed modems that conform to Hayes 1200 bps simple protocol. If there are problems consult your modem manual or contact the modem manufacturer for technical support.

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What the AT Commands Mean to Your External Modem

&F Restore factory default configuration.

%C0 Disable data compression.

&C1 The RLSD (Received Line Signal Detect) output follows the state of the carrier:

ON when the remote modem's carrier is detected.

OFF when the remote modem's carrier is not detected.

&D2 If the DTR (<u>Data Terminal Ready</u>) signal goes inactive, the modem disconnects.

Autoanswer is inhibited when the DTR signal is inactive.

&Q6 Connect in the Normal Mode. Error correction and data compression are disabled.

+MS=1,0,1200,1200 Disables automode and forces connection rate to only 1200 bps.

S95=0 Result code control.

S0=1 Number of rings to autoanswer (1). A value of 0 would prevent modem from

autoanswering.

&W0 Store the current configuration into User Profile 0.&Y0 Set User Profile 0 to default for the Z command.

NOTE: Commands can be verified by issuing AT&V.

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