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This bulletin notes the primary differences among versions of TTDM user interface software; it supplements the "Operation and Maintenance Manual for TTDM Alarm and Locating Modules" (Raychem literature reference H55472). This bulletin is also intended as a reference to help determine when a software upgrade is appropriate.

### Version 1.05a - September, 1996

#### *Upgrade recommended for users of 4-20 mA transmitter, and for users in Spanish*

- Spanish menu selection was changed from "valores mira/cambio" to "valores ver/cambiar." Several other small refinements were made in Spanish text.
- 4-20 mA functions enhanced:
  - Output is scaled between 5.00 and 20.00 mA to indicate location of leak
  - Maximum length for 20 mA value was extended
  - New selection was added under 4-20 mA Self-Test: Leak at 0 ft (or m).
- Logic was changed so that "Leak" alarm overrides "Loop imbalance" alarm (condition of loops can still be viewed in System Status screen).

### Version 1.05 - June, 1996

#### *Upgrade from V1.03 required for users in in French, German, and Spanish*

- Text in displays was released for use in English, French, German, and Spanish.
- UI version is displayed in the System Status screen, as well as during tests.
- The Ports menu now includes a "Print Events" command to send the entire events history through the serial port.
- 4-20 mA output is scaled between 5.00 and 21.00 mA to indicate location of leak.
- Serial port communications were enhanced to allow modem access.
- If User Interface EPROM is replaced, the TTDM automatically reconfigures with the new software when the TTDM is first powered after an EPROM replacement.

### Version 1.03 - January, 1996

#### *Production release*

- Text in LCD displays was released only for use in English (text was preliminary for French and German).
- UI version is displayed when power is turned on, after "Test" button is pressed, and after UI Test is run from Self-Test menu; however UI version is not displayed in the System Status screen.
- 4-20 mA output is scaled between 4.02 and 20.00 mA to indicate location of leak.
- Serial port communications are suitable only for connection to a host PC.
- If User Interface Software EPROM is replaced, TTDM must be manually reconfigured (as described in EPROM installation instructions) to accept and apply the revised software.

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