



NEW ERA PUMP SYSTEMS INC.  
WWW.SYRINGEPUMP.COM  
(631) 249-1392

## FW-1-X2 FIRMWARE UPGRADE NE-1000 SERIES OF SYRINGE PUMPS

This User Manual is an addendum to the standard NE-1000 User Manual and supersedes it.

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### Pumping Program Phases

Maximum Program Phase: 340

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#### Program Phase Parameter: Display and Entry

A Program Phase number greater than 99 will be displayed as 2 dashes (--) in display messages that show only 2 digit Phase numbers. nn•- -

Pressing an arrow key below a dash, or the phase number displayed, will display 4 digits, indicating the phase number. Press the up arrow keys to edit the phase number, limited to the maximum phase number.

#### Error Message Displays

Pump rate 'Out of Range', displayed as □ □ □ □, and general Pumping Program errors, displayed as E □ □ □, are displayed as 2 alternating messages. The indicated message will alternate with a message

indicating the relevant Pumping Program Phase number. nnnn. Pressing any key will clear the messages.

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### RS-232 Serial Communications

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| <u>BAUD Rate Selections</u> | <u>Displayed As</u> |
|-----------------------------|---------------------|
| 1200                        | 1200                |
| 2400                        | 2400                |
| 9600                        | 9600                |
| 19,200                      | 1920                |
| 38,400                      | 3840                |

Any RS-232 command that takes a Pumping Program Phase as a parameter will take up to 4 digits to indicate the parameter. Responses will also indicate the Phase number as 4 digits:

#### Examples

Set the Pumping Program Phase to Phase 300, then set a jump to phase 100:

```
PHN 300  
FUN JMP 100
```

A query of the Phase and Function will provide the following data responses:

```
0300  
JMP0100
```