

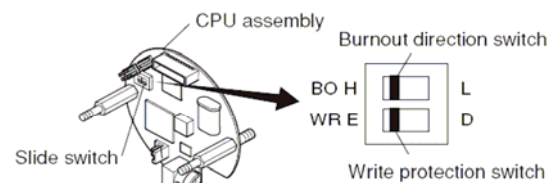
The Hart EJX offers Hardware and Software (*Password*) Write Protection for all input parameters and Software Protection for the zero-adjustment screw. These great features allow the customer to protect the settings in the EJX transmitter and offer the following features:

- Hardware Write Protection in the form of a switch on the CPU assembly board.
- Software Write Protection in the form of a Password feature.
 - ✓ The Password feature can be turned on & off.
 - ✓ Each transmitter can have a unique password.
 - ✓ The Password can be any 1 to 8 digit alphanumeric string
 - ✓ If you forget your password, a recovery password is pre-programmed into the transmitter.
- The Zero-adjustment screw can also be Software protected.



Section 1.0 Hardware Write Protection

The Hart EJX transmitter has a Write Protection (WR) switch located on the CPU Assembly Board next to the Burn Out (BO) switch. * (See **Figure 1**) When the WR switch is in the “D” (Disabled) position; the transmitter will not allow parameter changes through the use of a handheld terminal or some other communication method. When the WR switch is in the “E” (Enable) position, parameter changes will be allowed.



Hardware write protection switch (WR)					
Write Protection Switch Position	<table border="1"> <tr> <td>H</td> <td>L</td> </tr> <tr> <td>E</td> <td>D</td> </tr> </table>	H	L	E	D
H	L				
E	D				
Write Protection	<table border="1"> <tr> <td>NO (Write enabled)</td> <td>YES (Write disabled)</td> </tr> </table>	NO (Write enabled)	YES (Write disabled)		
NO (Write enabled)	YES (Write disabled)				

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* Refer to the exploded view of the transmitter in the Instruction Manual (IM) for the location of the CPU Assembly Board within the EJX transmitter.

Figure 1

Section 2.0 Software Write Protection

The Hart EJX transmitter offers Software Write Protection in the form of a Password.

Section 2.1 Activating the Password Function and setting the password.

(See *Figure 2*)

Using the 275 & 375 Hart Communicator:

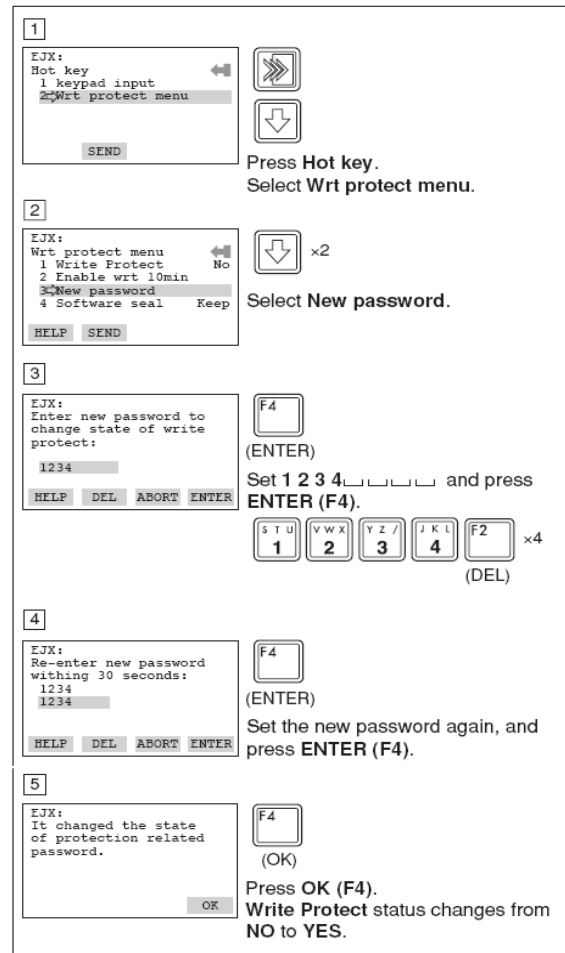
1. Press the **Hot Key** and select **Wrt protect menu**.
2. In the **Wrt protect menu**, select **New password**.
3. Enter your new password. The password can be 1 to 8 digits. If you need to change a character, use the **Delete Key** to delete the last character displayed. When your password is completely entered, press **ENTER**.
4. The unit will now request that you verify the password. Re-type your password and press **ENTER**. This verification must be completed within 30 seconds of first entering your password.
5. The communicator screen will verify the change on the screen. Press **ENTER**.

When the process is complete, the Write Protect status changes to “Yes”. This indicates that the transmitter is now Password Protected.

Section 2.2 Entering a Password to Enable Parameter Change.

(See *Figure 3*)

Example: Set the password to 1 2 3 4



1
EJX:
Hot key
1 keypad input
2 Wrt protect menu
SEND

Press Hot key.
Select Wrt protect menu.

2
EJX:
Wrt protect menu
1 Write Protect No
2 Enable wrt 10min
3 New password
4 Software seal Keep
HELP SEND

Select New password.

3
EJX:
Enter new password to
change state of write
protect:
1234
HELP DEL ABORT ENTER

F4
(ENTER)
Set 1 2 3 4 and press
ENTER (F4).

4
EJX:
Re-enter new password
withing 30 seconds:
1234
HELP DEL ABORT ENTER

F4
(ENTER)
Set the new password again, and
press ENTER (F4).

5
EJX:
It changed the state
of protection related
password.
OK

F4
(OK)
Press OK (F4).
Write Protect status changes from
NO to YES.

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Figure 2

Using the 275 & 375 Hart Communicator:

1. Press the **Hot Key** and select **Wrt protect menu**.
2. In the **Wrt protect menu**, select **Enable wrt 10min**.
3. You will be prompted to enter your 8-digit password. Again, if you need to change an entered character, use the **Delete Key** to delete the last character displayed. When your password is completely entered, press **ENTER**.

4. The display will remind you that the transmitter will accept parameter changes for the next 10 minutes. Press **OK**.
5. The display will display a message reminding you that you may disable the password function in the future. Press **OK**.

Once **OK** is pressed the second time, the transmitter will allow parameters to be modified for 10 minutes. After the 10 minutes have elapsed, the password will need to be re-entered to continue to modify parameters.

Section 2.3 De-activating the Password Function.

Enter your password to allow parameter changes ([Section 2.2](#)). During the 10 minutes parameter changes are allowed, follow the procedure in [Section 2.1](#) to set a new password. When prompted during the procedure to enter your new password, enter **8** spaces. Complete the balance of the [Section 2.1](#) procedure.

When the procedure is complete, the Write Protect status changes to 'No'. This indicates that the transmitter is no longer Password Protected.

Section 2.4 Recovery Password

When you miss-place or forget your password, it is possible to release the password function by using the general password "YOKOGAWA". When this password is used, you have 10 minutes to reset the password *only*. No other parameters can be changed during this time.

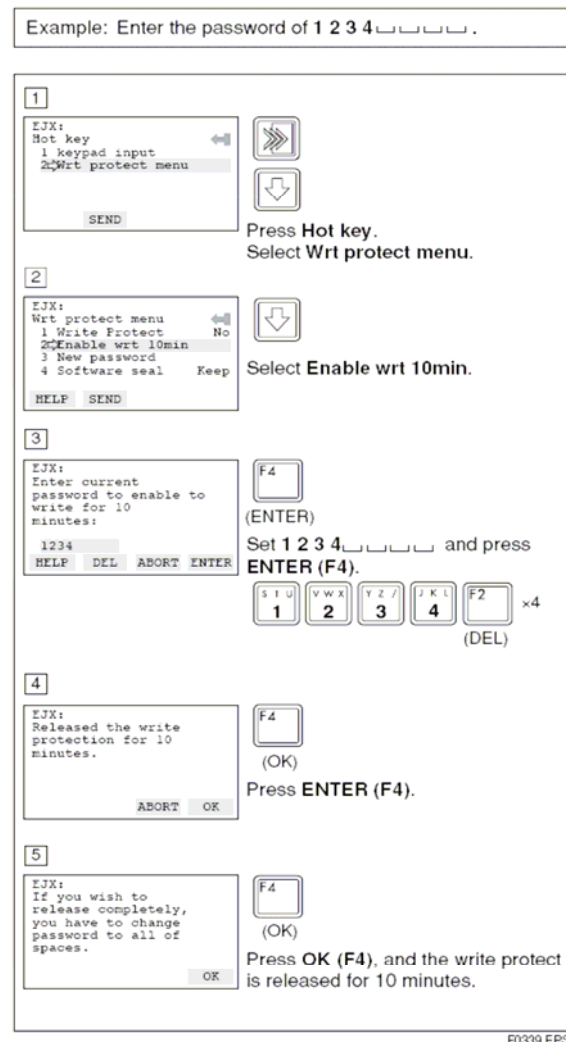


Figure 3

Reset your password per the procedure in [Section 2.1](#).

Section 3.0 Software protection of the external Zero Adjust Screw.

(See [Figure 4](#))

The external Zero Adjust Screw can be enabled or disabled whether the Password Protection is activated or de-activated.

To change the status of the Zero Adjust Screw with the Password Protection de-activated:

Using your 275 & 375 Hart Communicator:

1. Scroll through the menus: **Device setup – Detailed setup – Device information – Field device info – Ext SW**.
2. Under the ‘Ext SW’, select **Disabled** or **Enabled** depending on what you need to do. ‘Enabled’ allows the screw to adjust zero. ‘Disabled’ does not allow the screw to adjust zero.
3. Press **ENTER**.
4. Press **SEND** to send the data to the transmitter. Ensure that the “SEND” disappears.

Example: Set the mode to inhibit zero adjustment by means of the external zero-adjustment screw.

```

1. Device setup
  ↓
4. Detailed setup
  ↓
5. Device information
  ↓
1. Field device info
  ↓
9. Ext SW
  ↓
1
EJX:
Ext SW
Enabled
Disabled
Enabled
  ESC  ENTER
  (ENTER)
Select Disabled and press ENTER (F4).

2
EJX:
Field device info ←
5 Model 1
6 Model 2
7 Model 3
8 Write Protect No
9 Ext SW Disabled
HELP SEND HOME
  (SEND)
Press SEND (F2) to send the data to the transmitter, then check to confirm that SEND disappears.
  
```

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Figure 4

To change the status of the Zero Adjust Screw with the Password Protection activated:

Follow the procedure in [Section 2.2](#) to enter your password to allow parameters to be changed. During the 10 minutes changes are allowed, complete the procedure above.

Section 4.0 Transmitters with Displays

EJX transmitters with a LCD display will indicate when the Write Protect (Hardware or Software) is enabled. A “Key” symbol will appear on the display when the Write Protect is *enabled*.

(See *Figure 5*)

Section 5.0 Settings When Shipped

Hardware Write Protection (WR Switch):
“E” (Write Enabled)

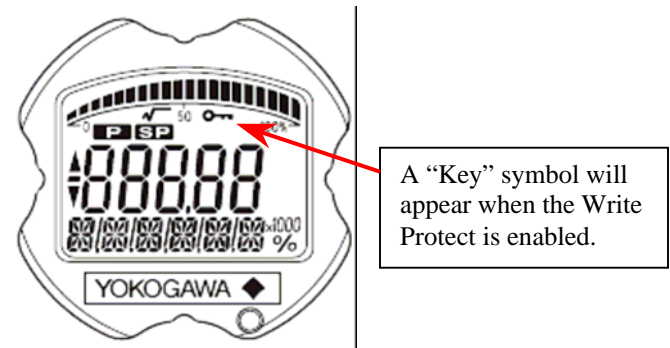


Figure 5

Software Write Protection (Password Feature): De-activated

External Zero Adjust Screw: Enabled