Smart Actuator
HART Communication
Update Instructions
50004682-501 and 50004682-503

Summary

These kits contain a HART communication printed wiring assembly for your Smart Actuator.

Procedure

See the following pages for the required procedures.

Kit # 50004682-501 - Procedure to install the HART Communication PWA in 10260S Smart Actuator  
Kit # 50004682-503 - Procedure to install the HART Communication PWA in 2001/2002 Smart Actuators

Disconnect power before accessing components inside the instrument.

When working with circuit cards always protect against electrostatic discharge by wearing a grounded wrist strap.
**Procedure to install the HART Communication PWA in 10260S Smart Actuator.**

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
</table>
| 1    | Installation of HART Communication PWA  
Remove screws holding the extended cover assembly  
Remove the extended cover assembly. DO NOT REMOVE ANY CABLES. The cover will not lay flat, support it. |

![Figure 2 10260S Internal View](image)

| 2    | Replace the existing PROM with the one supplied in the kit.  
- Insure PROM is oriented correctly before installing. |

![PROM Diagram](image)
3. Insert HART Communication PWA in the provided card guides.
   - Remove Power Distribution PWA (DO NOT REMOVE CONNECTORS). See figure in step 1 for location.
   - Insert HART PWA and use the latches on the card guides to lock the PWA in position.
   - Reassemble the Power Distribution PWA and use the latches on the card guides to lock the PWA in position.

4. Rewire the auxiliary connector.
   - Change from

```
WIRING FOR 10260S SERIES ACTUATOR WITH MODBUS
```

```
TB4
N R Y A B N B W A
W N K B
4-20 IN (-) 4-20 IN (+) 4-20 OUT (-) 4-20 OUT (+) SW EMUL (-) SW EMUL (+) SW EMUL (FEEDBACK) COM (-) COM (+) COM (SHIELD) DI (COM) DI (INP)
```

5. Change to

```
WIRING FOR 10260S SERIES ACTUATOR WITH HART
```

```
TB4
N R Y A B W A
W N K B
4-20 IN (-) 4-20 IN (+) 4-20 OUT (-) 4-20 OUT (+) SW EMUL (-) SW EMUL (+) SW EMUL (FEEDBACK) COM (-) COM (+) COM (SHIELD) DI (COM) DI (INP)
```

6. Replace terminal cover & extended cover assembly
   - Replace terminal cover gasket.
   - Replace terminal cover.
   - Replace extended cover assembly gasket.
   - Replace extended cover assembly.
**Kit 50004682-503**

Procedure to install the HART Communication PWA in 2001/2002 Smart Actuators.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
</table>
| 1    | Remove top cover  
Remove the CPU. |
| 2    | Replace the existing PROM with the one supplied in the kit.  
- Insure PROM is oriented correctly before installing. |
| 3    | Insert HART Communication PWA in the provided card guides. |
4. Rewire the auxiliary connector.
   - Change **FROM**

   ![Wiring Diagram](image)

   **SLIDEWIRE EMULATION**
   - 4 TO 20mA OUTPUT
     - [Pin Diagram]
   - 4 TO 20mA INPUT
     - [Pin Diagram]
   **COMMUNICATIONS**
   - B
   - N
   - W
   - K
   - SHLD
   - COM
   - INP

5. Change **TO**

   ![Wiring Diagram](image)

   **SLIDEWIRE EMULATION**
   - 4 TO 20mA OUTPUT
     - [Pin Diagram]
   - 4 TO 20mA INPUT
     - [Pin Diagram]
   **COMMUNICATIONS**
   - W
   - N
   - K
   - B
   - SHLD
   - COM
   - INP

6. Install the new gasket

7. Replace the CPU.

8. Replace the top cover