Installing the Terminal Block Module

Instruction sheet for SmartLine Transmitters:
ST 700 and ST 800 Pressure Transmitters
SLG 700 Level Transmitters

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Please take appropriate steps to avoid ESD damage when handling the Terminal Block assembly

Tools required

<table>
<thead>
<tr>
<th>For this item</th>
<th>Use this tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3 set screw for end cap removal</td>
<td>1.5 mm Allen key</td>
</tr>
<tr>
<td>Terminal block module retaining screws</td>
<td>#1 Philips or slotted screwdriver</td>
</tr>
<tr>
<td>Transmitter re-assembly</td>
<td>Parker Super O-ring lubricant or equivalent</td>
</tr>
<tr>
<td>Field upgrades</td>
<td>Pliers</td>
</tr>
</tbody>
</table>

Step – 1: Turn OFF transmitter power.
Step – 2: Loosen the end cap locking screw and unscrew the end cap from the field wiring side of the transmitter housing.
Step – 3: Remove the loop wires from the terminal block assembly.
Step – 4: Loosen the two retaining screws, and carefully pull the terminal block assembly from the field wiring compartment. Pliers may be used on the vertical tab on the terminal block assembly to assist in the module removal (Refer to Figure 1).
Step – 5: Apply the appropriate communication protocol label supplied to the terminal block assembly, as shown in Figure 1 View A.
Step – 6: Install the terminal block assembly by aligning the two ribs on the upper portion of the terminal block assembly with the ground connection rib in the housing and carefully push the terminal block assembly into the field wiring compartment until fully seated against the two mounting bosses.
**Step – 7:** Tighten the two terminal block assembly screws.

**Step – 8:** Reconnect the loop wiring.

**Step – 9:** (Steps 9 & 11 required for field upgrades only*)
Select the proper terminal block upgrade kit label from the label strip provided and adhere the label to the inside of field wiring end cap.

*NOTE: Field Upgrades are not applicable to ST 700 Basic model transmitters.*
Refer to Table 1 to identify ST 700 Basic and Standard models.

**Step – 10:** Apply Parker Super O-ring Lubricant or equivalent to the end cap O-ring before installing the end cap. Reinstall the end cap and tighten the end cap locking screw.

**Step – 11:** Install external upgrade nameplate (i.e. DEVICE MODIFIED.....) on outside of housing as shown in Figure 1).

**Step – 12:** Turn ON transmitter power.

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**Table 1 – ST 700 Standard and Basic model types**

<table>
<thead>
<tr>
<th>Transmitter Configuration</th>
<th>Smart Line Pressure ST700</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard Models</td>
</tr>
<tr>
<td>Dual head DP</td>
<td>STD720/730/770</td>
</tr>
<tr>
<td>Dual head GP</td>
<td>STG730/740/770</td>
</tr>
<tr>
<td>Inline GP</td>
<td>STG73L/74L/77L/78L/79L</td>
</tr>
<tr>
<td>Inline flush GP</td>
<td>STG73P</td>
</tr>
<tr>
<td>Dual head AP</td>
<td>STA722/740</td>
</tr>
<tr>
<td>Inline AP</td>
<td>STA72L/74L/77L</td>
</tr>
<tr>
<td>Flush flanged liquid level</td>
<td>STF724/732</td>
</tr>
<tr>
<td>Pseudo flanged liquid level</td>
<td>STF72F/73F</td>
</tr>
<tr>
<td>Remote seal DP/GP</td>
<td>STR73D/74G</td>
</tr>
</tbody>
</table>
Sales and Service
For application assistance, current specifications, pricing, or name of the nearest Authorized Distributor, contact one of the offices below.

ASIA PACIFIC
Honeywell Process Solutions,
(TAC) hfs-tac-support@honeywell.com

Australia
Honeywell Limited
Phone: +61 7-3846 1255
FAX: +61 7-3840 6481
Toll Free 1300-36-39-36
Toll Free Fax: 1300-36-04-70

China – PRC - Shanghai
Honeywell China Inc.
Phone: (86-21) 5257-4568
Fax: (86-21) 6237-2826

Singapore
Honeywell Pte Ltd.
Phone: +(65) 6580 3278
Fax: +(65) 6445-3033

South Korea
Honeywell Korea Co Ltd
Phone: +(822) 799 6114
Fax: +(822) 792 9015

EMEA
Honeywell Process Solutions,
Phone: + 80012026455 or +44 (0)1344 656000

Email: (Sales)
FP-Sales-Apps@Honeywell.com
or
(TAC)
hfs-tac-support@honeywell.com

AMERICAS
Honeywell Process Solutions,
Phone: (TAC) 1-800-423-9883 or 215/641-3610
(Sales) 1-800-343-0228

Email: (Sales)
FP-Sales-Apps@Honeywell.com
or
(TAC)
hfs-tac-support@honeywell.com

For more information
To learn more about SmartLine Transmitters, visit www.honeywellprocess.com
Or contact your Honeywell Account Manager

Process Solutions
Honeywell
1250 W Sam Houston Pkwy S
Houston, USA, TX 77042

Honeywell Control Systems Ltd
Honeywell House, Skimped Hill Lane
Bracknell, England, RG12 1EB

Shanghai City Centre, 100 Jungi Road
Shanghai, China 20061

www.honeywellprocess.com

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