Flush-mount models are attached directly to a process pipe or tank by a one-inch weld optional angle or flat mounting bracket; alternately you can use your own bracket.

Again be readable when temperatures return to within operable limits.

Temperature extremes can affect display quality. The display can become unreadable for your particular model.

Evaluate the site selected for the Transmitter installation with respect to the process system design specifications and Honeywell’s published performance characteristics for your particular model.

Temperature extremes can affect display quality. The display can become unreadable at temperature extremes; however, this is only a temporary condition. The display will again be readable when temperatures return to within operable limits.

### Bracket Mounting

- Optional mounting bracket, see Figure 2
- Existing mounting bracket, see Figure 3
- Rotate the transmitter housing, see Figure 4

Level a transmitter with small absolute or differential pressure spans, see Figure 5

### Optional Mounting Bracket

Position the bracket on a 2-inch (50.8mm) and install “U” bolt around pipe and through holes in bracket. Secure with nuts and lock washers provided.

![Figure 2: Angle Mounting Bracket](image-url)
**Existing Mounting Bracket**

Align appropriate mounting holes in transmitter with holes in bracket and secure with bolts and washers provided.

**Note:** If the meter body is hexagonal, you must use the additional bracket supplied. If meter body is round, discard the bracket.

Example – LGP model transmitter mounted to optional angle mounting bracket.

<table>
<thead>
<tr>
<th>If Transmitter is</th>
<th>Then....</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP, Dual Head GP, Dual Head AP and DP Remote Seals.</td>
<td>Use alternate mounting holes in end of heads.</td>
</tr>
<tr>
<td>In-line GP and AP (LGP model) or GPIAP Remote Seal</td>
<td>Use smaller “U” bolt provided to attach meter body to bracket. See Figure 3.</td>
</tr>
</tbody>
</table>

![Figure 3: LGP and LAP models](image)

**Rotating Transmitter Housing**

Loosen set screw on outside neck of transmitter one full turn. Rotate Transmitter housing in maximum of 180 degree increment in left or right direction from center to position you require and tighten set screw (1.46 to 1.68Nm/13 to 15lb-in).

![Figure 4: Rotating Transmitter Housing](image)

**Leveling Transmitters with Small Absolute or Differential Pressure Spans**

Mounting position of these transmitters is critical due to the smaller transmitter spans.

To minimize these positional effects on calibration (zero shift), take the appropriate mounting precautions that follow for the given transmitter model.

See Figure 5 for suggestions on how to level the transmitter using a spirit balance.

To perform a Zero Trim after leveling, refer to **Trim the Transmitter** on page 4.

![Figure 5: Using level to mount transmitter](image)

**Flange Mounting**

To mount a flange mounted transmitter model, bolt the transmitter’s flange to the flange pipe on the wall of the tank.

On insulated tanks, remove enough insulation to accommodate the flange extension. It is the End User’s responsibility to provide a flange gasket and mounting hardware that are suitable for the transmitter’s service condition.

To prevent degradation of performance in Flush-Mounted Flanged Transmitters, exercise care to ensure that the internal diameter of the flange gasket does not obstruct the sensing diaphragm.

To prevent degradation of performance in Extended Mount Flanged Transmitters, ensure that there is sufficient clearance in front of the sensing diaphragm body.

![Figure 6: Flange mounting](image)
**Flush Mounting**

To mount a flush mounted transmitter model, cut a hole for a 1-inch standard pipe in the tank or pipe where the transmitter is to be mounted. See Figure 7.

Weld the 1-inch mounting sleeve to the wall of the tank or to the hole cut on the pipe. Insert the meter body of the transmitter into the mounting sleeve and secure with the locking bolt. Tighten the bolt to a torque of 6.4Nm ±0.30Nm [4.7ft.-lbs. ±0.2ft.-lbs.]

Once the transmitter is mounted, the transmitter housing can be rotated to the desired position. See Figure 7.

**Remote Seal Mounting**

Mount the transmitter at a remote distance determined by length of capillary tubing.

*Note:* The combination of tank vacuum and high pressure capillary head effect should not exceed 9psi (300mm Hg) absolute.

On insulated tanks, remove enough insulation to accommodate the mounting sleeve.

**Conduit Entry Plugs and Adapters**

*Procedures*

It is the User/Installer’s responsibility to install the Transmitters in accordance with national and local code requirements. Conduit entry plugs and adapters shall be suitable for the environment, shall be certified for the hazardous location when required and acceptable to the authority having jurisdiction for the plant.

**CONDUIT ENTRY PRECAUTIONARY NOTICE**

THE CONDUIT/CABLE GLAND ENTRIES OF THIS PRODUCT ARE SUPPLIED WITH PLASTIC DUST CAPS WHICH ARE NOT TO BE USED IN SERVICE. IT IS THE USER’S RESPONSIBILITY TO REPLACE THE DUST CAPS WITH CABLE GLANDS, ADAPTERS AND/OR BLANKING PLUGS WHICH ARE SUITABLE FOR THE ENVIRONMENT INTO WHICH THIS PRODUCT WILL BE INSTALLED. THIS INCLUDES ENSURING COMPLIANCE WITH HAZARDOUS LOCATION REQUIREMENTS AND REQUIREMENTS OF OTHER GOVERNING AUTHORITIES AS APPLICABLE.

Use the following procedures for installation:

**Table 1 - Conduit Entry Plugs**

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Remove the protective plastic cap from the threaded conduit entry.</td>
</tr>
<tr>
<td>2</td>
<td>To ensure the environmental ingress protection rating on tapered threads (NPT), a non-hardening thread sealant may be used.</td>
</tr>
<tr>
<td>3</td>
<td>Thread the appropriate size conduit plug (M20 or ½” NPT) into the conduit entry opening. Do not install conduit entry plugs in conduit entry openings if adapters or reducers will be used.</td>
</tr>
<tr>
<td>4</td>
<td>Tighten adapters according to the following table.</td>
</tr>
</tbody>
</table>

**Table 2 - Conduit Adapters**

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Remove the protective plastic cap from the threaded conduit entry.</td>
</tr>
<tr>
<td>2</td>
<td>To ensure the environmental ingress rating on tapered threads (NPT), a non-hardening thread sealant may be used.</td>
</tr>
<tr>
<td>3</td>
<td>Thread the appropriate size adapter (M20 or ½” NPT) into the conduit entry opening.</td>
</tr>
<tr>
<td>4</td>
<td>Tighten adapters according to the following table.</td>
</tr>
</tbody>
</table>

**Figure 9: Electronic Housing Conduit Entries**

*Note:* No plugs come installed in the housings. All housings come with temporary plastic dust protectors (red) installed and are not certified for use in any installation.
**Wiring Connections and Power Up**

**Summary**
The transmitter is designed to operate in a two-wire power/current loop with loop resistance and power supply voltage within the operating range shown in Figure 10.

Loop wiring is connected to the transmitter by simply attaching the positive (+) and negative (-) loop wires to the positive (+) and negative (-) SIGNAL screw terminals on the terminal block in the transmitter’s electronics housing shown in Figure 11. Each transmitter includes an internal terminal to connect it to earth ground. Also, a ground terminal can be optionally added to the outside of the electronics housing. While it is not necessary to ground the transmitter for proper operation, doing so tends to minimize the possible effects of noise on the output signal and affords protection against lightning and static discharge.

An optional lighting terminal block can be installed in place of the non-lighting terminal block for Transmitters that will be installed in an area that is highly susceptible to lightning strikes.

![Figure 10. Two-wire power/current loop](image)

**Operating Area**

Note: A minimum of 260 ohms of loop resistance is required to support communications. Loop resistance = barrier resistance + wire resistance + receiver resistance

![Figure 10: Two-wire power/current loop](image)

**Explosion-Proof Conduit Seal**

⚠ When installed as explosion proof in a Division 1 Hazardous Location, keep covers tight while the Transmitter is energized. Disconnect power to the Transmitter in the non-hazardous area prior to removing end caps for service.

When installed as non-intrinsically safe equipment in a Division 2 hazardous location, disconnect power to the Transmitter in the non-hazardous area, or determine that the location is non-hazardous before disconnecting or connecting the Transmitter wires.

Transmitters installed in for protection explosion proof in Class I, Division 1 do not need an explosion proof seal in accordance with ANSI/NFPA 70, the US National Electrical Code. A LISTED explosion proof seal to be installed in the conduit, within 18 inches (457.2mm) of the Transmitter when 3/4” conduit is used.

Crouse-Hinds type EYS/EYD or EYSX/EYDX are examples of LISTED explosion proof seals that meet this requirement. Transmitters installed as explosion proof in Class I, Division 1, Group B, C or D hazardous (classified) locations do not require that explosion proof seal be installed in the conduit.

**Trim the Transmitter**

**Procedure to Trim the Transmitter**

For a transmitter with a small differential pressure span, you must ensure that the transmitter is vertical when mounting it. You do this by leveling the transmitter side-to-side and front-to-back. See Figure 5 for suggestions on how to level the transmitter using a spirit balance. You must also zero the transmitter by following the steps in this table.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>See Figure 11, above, for parts locations.</td>
</tr>
<tr>
<td>2</td>
<td>Remove the end cap cover from the terminal block end of the Electronics Housing</td>
</tr>
<tr>
<td>3</td>
<td>Feed loop power leads through one end of the conduit entrances on either side of the Electronics Housing. The Transmitter accepts up to 16 AWG wire.</td>
</tr>
<tr>
<td>4</td>
<td>Plug the unused conduit entrance as specified in Table 1.</td>
</tr>
<tr>
<td>5</td>
<td>Connect the positive loop power lead to the positive (+) terminal and the negative loop power lead to the negative (-) terminal. Note that the Transmitter is not polarity-sensitive.</td>
</tr>
<tr>
<td>6</td>
<td>Replace the end cap, and secure it in place using a 1.5mm hex wrench.</td>
</tr>
</tbody>
</table>

**Wiring Variations**
The above procedures are used to connect power to a Transmitter. For loop wiring and external wiring, detailed drawings are provided for Transmitter installation in non-intrinsically safe areas and for intrinsically safe loops in hazardous area locations. This procedure shows the steps for connecting power to the transmitter.

⚠ Wiring must comply with local codes, regulations and ordinances. Grounding may be required to meet various approval body certification, for example CE conformity. Refer to the SmartLine Transmitter User’s Manual, Documents # 34-ST-25-35 (ST 800) or 34-ST-25-44 (ST 700) for details.
Set the Jumpers For HART/DE

Setting Failsafe Direction and Write Protect Jumpers

The SmartLine Pressure Transmitter (DE or HART) provides two jumpers to set the desired failsafe action and Write Protect option. See Figure 12: Jumper Location HART/DE

The top jumper on the electronics module sets the Failsafe direction. The default setting is up-scale failsafe.

Up Scale drives the loop to a value greater than 21mA while Down Scale drives the loop to a value less than 3.8mA.

You can change the failsafe direction by moving the Failsafe Jumper (top jumper) to the desired position (UP or DOWN).

If your transmitter is operating in DE mode, the upscale failsafe action will cause the transmitter to generate a "+ infinity" digital signal, while a downscale failsafe will cause the transmitter to generate a "– infinity" digital signal.

The bottom jumper sets the Write Protect. The default setting is OFF (Unprotected).

When set to the ON (Protected) position, Changed configuration parameters cannot be written to the transmitter.

When set to the OFF (Unprotected) position, Changed configuration parameters can be written to the transmitter.

Write Protect Jumper on Foundation Fieldbus (FF)

On Foundation Fieldbus transmitters there is no Failsafe jumper selection but there is a Write Protect jumper.

The bottom jumper sets the Write Protect. The default setting is OFF (Unprotected).

When set to the ON (Protected) position, Changed configuration parameters cannot be written to the transmitter.

When set to the OFF (Unprotected) position, Changed configuration parameters can be written to the transmitter.

Table 3 - Jumper Settings

<table>
<thead>
<tr>
<th>Jumper Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Failsafe = UP (High)</td>
<td>Write Protect = OFF (Not Protected)</td>
</tr>
<tr>
<td>Failsafe = DOWN (Low)</td>
<td>Write Protect = OFF (Not Protected)</td>
</tr>
<tr>
<td>Failsafe = UP (High)</td>
<td>Write Protect = ON (Protected)</td>
</tr>
<tr>
<td>Failsafe = DOWN (Low)</td>
<td>Write Protect = ON (Protected)</td>
</tr>
</tbody>
</table>

ATTENTION: Electrostatic Discharge (ESD) hazards. Observe precautions for handling electrostatic sensitive devices.

ATTENTION: Electrostatic Discharge (ESD) hazards. Observe precautions for handling electrostatic sensitive devices.

WARNING! PERSONAL INJURY: Risk of electrical shock. Disconnect power before proceeding. HAZARDOUS LIVE voltages greater than 30Vrms, 42.4 V peak, or 60VDC may be accessible. Failure to comply with these instructions could result in death or serious injury.

Configuration Guide

This transmitter comes with a standard factory configuration. Consult the nameplate for basic information. Reconfiguration for your particular application can be accomplished by following instructions in the Transmitter User’s manual.

This can be found by following the website URL or QR code on page 1 of this document.
PRODUCT CERTIFICATIONS

For Safety Certified installations, please refer to ST 800 & ST 700 Safety Manual 34-ST-25-37 for installation procedure and system requirements.

A2. European Directive Information (CE Mark)
## Hazardous Locations Certifications

<table>
<thead>
<tr>
<th>AGENCY</th>
<th>TYPE OF PROTECTION</th>
<th>COMM. OPTION</th>
<th>FIELD PARA. METERS</th>
<th>AMBIENT TEMP (Ta)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM Approvals, USA</td>
<td>Explosion proof: Class I, Division 1, Groups A, B, C, D; Dust Ignition Proof: Class II, III, Division 1, Groups E, F, G, T5, T6</td>
<td>All</td>
<td>Note 1</td>
<td>55°C to 85°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>65°C to 85°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Intrinsic safety: Class I, II, III, Division 1, Groups A, B, C, D, E, F, G, T4</td>
<td>4.20 mA / DE/HART</td>
<td>Note 2a</td>
<td>-50°C to 70°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Noninincendive: Class I, Zone 2, Groups A, B, C, D locations, T4</td>
<td>4.20 mA / DE/HART</td>
<td>Foundation Fieldbus</td>
<td>-50°C to 70°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Enclosure: Type 4V/ I66/ I67</td>
<td>All</td>
<td>All</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Canadian Standards Association (CSA) USA and Canada</td>
<td>Explosion proof: Class I, Division 1, Groups A, B, C, D; Dust Ignition Proof: Class II, III, Division 1, Groups E, F, G, T6, T5</td>
<td>All</td>
<td>Note 1</td>
<td>55°C to 85°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>65°C to 85°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Intrinsic safety: Class I, II, III, Division 1, Groups A, B, C, D, E, F, G, T4</td>
<td>4.20 mA / DE/HART</td>
<td>Note 2a</td>
<td>-50°C to 70°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Noninincendive: Class I, Zone 2, Groups A, B, C, D locations, T4</td>
<td>4.20 mA / DE/HART</td>
<td>Foundation Fieldbus</td>
<td>-50°C to 70°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Enclosure: Type 4V/ I66/ I67</td>
<td>All</td>
<td>All</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**FM Approvals, USA**

1. **ATEX**
   - Flameproof: II 1/2 G Ex db IIC T6, T5 Ga/Gb
   - II 2 D Ex tb IIC T95 Db
   - Intrinsic Safe: II 3 G Ex ia IIC T4 Ga
   - FISCO Field Device (Only for FF Option)
   - Ex ia IIC T4 Ga; Ex ic IIC T4 Gc
   - 4.20 mA / DE/HART
   - Foundation Fieldbus
   - All Note 1
   - -50°C to 85°C
   - 65°C to 85°C

2. **Nonincendive**
   - II 3 G Ex na IIC T4 Gc
   - -50°C to 85°C
   - Enclosure: I66/ I67
   - All
   - -

3. **IECEx World**
   - Flameproof: Ex db IIC T6, T5 Ga/Gb
   - Ex tb IIC Db T95 Db
   - Intrinsic Safe: Ex ia IIC T4 Ga
   - 4.20 mA / DE/HART
   - Foundation Fieldbus
   - All Note 1
   - -50°C to 85°C
   - 65°C to 85°C

4. **Nonincendive**
   - Ex na IIC T4 Gc
   - -50°C to 85°C
   - Enclosure: I66/ I67
   - All
   - -

5. **SAEx South Africa**
   - Flameproof: Ex ia IIC G4 T4
   - 4.20 mA / DE/HART
   - Foundation Fieldbus
   - All Note 1
   - -50°C to 85°C

   - Nonincendive: Ex na IIC G4 T4
   - -50°C to 85°C
   - Enclosure: I66/ I67
   - All
   - -
### Notes

3. **continued**

**Apparatus Marked with Multiple Types of Protection**

The user must determine the type of protection required for installation the equipment. The user shall then check the box [] adjacent to the type of protection used on the equipment certification nameplate. Once a type of protection has been checked on the nameplate, the equipment shall not then be reinstalled using any of the other certification types.

### 4. WARNINGS and Caution:

**Intrinsically Safe and Non-Incendive Equipment:**

**WARNING:** SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR USE IN HAZARDOUS ENVIRONMENTS.

**Explosion-Proof Flameproof:**

**WARNING:** DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT.

**Non-Incendive Equipment:**

**WARNING:** DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT.

**WARNING:** FOR CONNECTION IN AMBIENTS ABOVE 60°C USE WIRE RATED 1050°C

### 5. Conditions of Use for Ex Equipment, “Hazardous Location Equipment” or “Schedule of Limitations”:

Painted surface of the ST700/ST800 may store electrostatic charge and become a source of ignition in applications with a low relative humidity less than approximately 30% relative humidity where the painted surface is relatively free of surface contamination such as dirt, dust or oil. Cleaning of the painted surface should only be done with a damp cloth.

**Flame-proof Installations:** The transmitter can installed in the boundary wall between an area of EPL Ga/Class I Zone 0/Category 1 and the less hazardous area, EPL Gb/Class I Zone 1/Category 2. In this configuration, the process connection is installed in EPL Ga/Class I Zone 1/Category 1, while the transmitter housing is located in EPL Gb/Class I Zone 1/Category 2.

The applicable temperature class, ambient temperature range and maximum process temperature of the equipment is as follows:

<table>
<thead>
<tr>
<th>Ex db IIC T6, T5 Ga/Gb</th>
<th>All</th>
<th>A1</th>
<th>50°C to 85°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ex iIIC T4 Ga</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inmetro Brazil</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flameproof: Ex db IIC T6, T5 Ga/Gb</td>
<td>All</td>
<td>A1</td>
<td>50°C to 85°C</td>
</tr>
<tr>
<td>Ex db IIC T6, T5 Ga</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intrinsically Safe: Ex ia IIC T4 Ga</td>
<td>4-20 mA / DE/ HART</td>
<td>Note 1</td>
<td>50°C to 70°C</td>
</tr>
<tr>
<td>FISCO Field Device (Only for FF Option)</td>
<td>Ex ia IIC T4 Ga</td>
<td>Foundation Fieldbus</td>
<td>Note 2b</td>
</tr>
<tr>
<td>Ex ia IIC T4 Ga</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonincendive: Ex ia IIC T4 Gc</td>
<td>4-20 mA / DE/ Foundation Fieldbus</td>
<td>Note</td>
<td>-50°C to 85°C</td>
</tr>
<tr>
<td>Enclosure: IP 66/67</td>
<td>All</td>
<td>A1</td>
<td></td>
</tr>
</tbody>
</table>

| Ex d IIC Ga/Gb T4      | All | A1 | 50°C to 85°C |
| Ex d IIC Ga/Gb T85°C   |     |    |              |
| Intrinsically Safe: Ex ia IIC Ga T4 | 4-20 mA /DE/ HART | Note 1 | 50°C to 70°C |
| FISCO Field Device (Only for FF Option) | Ex ia IIC Ga T4 | Foundation Fieldbus | Note 2b | 50°C to 70°C |
| Ex ia IIC Ga T4        |     |    |              |
| Nonincendive: Ex ia IIC Ga T4 | 4-20 mA /DE/ Foundation Fieldbus | Note 1 | -50°C to 85°C |
| Enclosure: IP 66/67    | All | A1 |              |

| Ex d IIC Ga/Gb T4      | All | A1 | 50°C to 85°C |
| Ex d IIC Ga/Gb T85°C   |     |    |              |
| Intrinsically Safe: Ex ia IIC Ga T4 | 4-20 mA /DE/ HART | Note 1 | 50°C to 70°C |
| FISCO Field Device (Only for FF Option) | Ex ia IIC Ga T4 | Foundation Fieldbus | Note 2b | 50°C to 70°C |
| Ex ia IIC Ga T4        |     |    |              |
| Nonincendive: Ex ia IIC Ga T4 | 4-20 mA /DE/ Foundation Fieldbus | Note 1 | -50°C to 85°C |
| Enclosure: IP 66/67    | All | A1 |              |

4. **Operating Parameters:**

- **Voltage:** 11 to 42 V
- **Current:** 4-20 mA Normal (3.8 – 23 mA Faults)

5. **Intrinsically Safe Entity Parameters**

### Notes

1. **Operating Parameters:**

- **Voltage:** 11 to 42 V
- **Current:** 4-20 mA Normal (3.8 – 23 mA Faults)

2. **Intrinsically Safe Entity Parameters**

For details see Control Drawing below.

3. **Marking ATEX Directive**

**General:**

The following information is provided as part of the labeling of the transmitter:

- **Name and Address of the manufacturer**
- **Notified Body Identification: DEKRA Quality B.V., Amhem, the Netherlands**
- **For complete model number, see the Model Selection Guide for the particular model of pressure transmitter**
- **The serial number of the transmitter is located on the Meter Body data-plate. The first two digits of the serial number identify the year (02) and the second two digits identify the week of the year (23); for example, 0223xxxxxx indicates that the product was manufactured in 2002, in the 23rd week**

### 5. Continued

**PROCESS TEMPERATURE VS AMBIENT TEMPERATURE**

<table>
<thead>
<tr>
<th>Maximum Process Temperature</th>
<th>Temperature Class</th>
<th>Ambient Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T6</td>
<td>T5</td>
</tr>
<tr>
<td>-50°C TO +65°C</td>
<td>80°C</td>
<td>120°C</td>
</tr>
<tr>
<td>-50°C TO +70°C</td>
<td></td>
<td>120°C</td>
</tr>
<tr>
<td>-50°C TO +85°C</td>
<td></td>
<td>110°C</td>
</tr>
</tbody>
</table>

Consult the manufacturer for dimensional information on the flameproof joints for repair.

The transmitter can be installed in the boundary wall between an area of Category 1 and the less hazardous area, Category 2. In this configuration, the process connection is installed in Category 1 while the transmitter housing is installed in Category 2.

**Intrinsically Safe:** Must be installed per drawing 50049892

**Division 2:** This equipment is suitable for use in a Class I, Division 2, Groups A, B, C, D; T4 or Non-Hazardous Locations Only.

The enclosure is manufactured from low copper aluminum alloy. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation, particularly if equipment is installed in Category 1. In this configuration, the process connection is installed in Category 1 while the transmitter housing is installed in Category 2.

**Intrinsically Safe:**

Must be installed per drawing 50049892

**Division 2:** This equipment is suitable for use in a Class I, Division 2, Groups A, B, C, D; T4 or Non-Hazardous Locations Only.
This certificate defines the certifications covered for the ST 800 Pressure Transmitter family of products. It represents the compilation of the five certificates Honeywell currently has covering the certification of these products into marine applications.


**Det Norske Veritas (DNV)** - Location Classes: Temperature D, Humidity B, Vibration A, EMC B, Enclosure C. For salt spray exposure: enclosure of 316 SST or 2-part epoxy protection with 316 SST bolts to be applied. Certificate number: A11476

**Korean Register of Shipping (KR)** - Certificate number: LOX17743-AB001

**Lloyd's Register (LR)** - Certificate number: 02/60001(E1) & (E2)

**SIL 2/3 Certification**

Certificate issued by NMI Certin B.V.

Mechanical Class: M3

Electromagnetic Environment: E3

Ambient Temperature Range: -25 °C to +55 °C

<table>
<thead>
<tr>
<th>Unit</th>
<th>Custom Calibration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST84L</td>
<td>0 to 35 Bar A</td>
</tr>
<tr>
<td>STG84L</td>
<td>0 to 35 Bar</td>
</tr>
<tr>
<td>STA87L</td>
<td>0 to 100 Bar A</td>
</tr>
<tr>
<td>STG87L</td>
<td>0 to 100 Bar</td>
</tr>
</tbody>
</table>

**MEASUREMENT INSTRUMENTS DIRECTIVE (MID) 2004/22/EC**

Certificate issued by NMI Certin B.V.

Mechanical Class: M3

Electromagnetic Environment: E3

Ambient Temperature Range: -25 °C to +55 °C

Unit Custom Calibration

| STA84L     | 0 to 35 Bar A |
| STG84L     | 0 to 35 Bar  |
| STA87L     | 0 to 100 Bar A|
| STG87L     | 0 to 100 Bar |

**Control Drawing**

**Output Protocol: HIIHART or DiDiE**

All models of the ST800 Series Pressure Transmitter family, except STG84L and STA87L, shall be assigned the Digital Protocol ID 10.0.0.0.0.

**Honeywell A4/Ad 50049892**

**Honeywell A4/Ad 50049892**

**Quick Start Installation Guide** 9
WARRANTY/REMEDY
Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

Sales and Service
For application assistance, current specifications, pricing, or name of the nearest Authorized Distributor, contact one of the offices below.

ASIA PACIFIC (TAC) hfs-tac-support@honeywell.com
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Email: (Sales) sc-cp-apps-salespa62@honeywell.com or (TAC) hfs-tac-support@honeywell.com

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

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.