# Honeywell STG740-STG740-E1GC4A-1-C-AHB-11S-A-50A0-0000

01 Product role and installation boundary

## What this product does

The STG740 senses gauge pressure through a temperature-compensated piezoresistive element. The transmitter converts the process-pressure condition into a configured output used by the control and indication loop.

The STG740 family range and minimum span set the calibration boundary, while the long order code controls the delivered execution. Communication, process connection, wetted materials and approvals must be confirmed from the offered nameplate and original order record before wiring or fit is approved.

Commissioning links the pressure tap, transmitter calibration and receiving control-system input. Isolate and restore the process connection under the site procedure, then compare applied pressure, local indication and host reading at controlled points rather than accepting a single zero check.

## Installed-system path

1. **Process pressure**
2. **STG740 sensor**
3. **Configured output**
4. **Control system**

## Selection and pre-work reference

| | |
|---|---|
| Sensor principle | Piezoresistive with temperature compensation |
| Upper range limit | 500 psi / 35 bar |
| Lower range limit | -14.7 psi / -1 bar |
| Minimum span | 5 psi / 0.35 bar |
| Maximum turndown | 100:1 |

## Where this configuration is applied

**Closed-loop pressure control:**

Supply a calibrated gauge-pressure measurement to a configured controller regulating process pressure.

**Local process indication:**

Present the measured gauge pressure to operators through the installed indication and control arrangement.

STG740 pressure-range and family values are confirmed; the remaining long order-code options are not decoded here and require the actual nameplate and original order record.

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02 Parameters and controlled replacement

## Verified technical data

| | |
|---|---|
| Standard reference accuracy | ±0.055% of span under stated conditions |
| Optional reference accuracy | ±0.040% of span; option dependent |
| Long-term stability | 0.02% URL per year for 10 years, family rating |
| Fastest response, family | 100 ms, configuration dependent |
| Available communication, family | Honeywell DE or HART 7.0; verify fitted option |
| External adjustments, family | Zero, span and configuration capability |

## How to apply the published ratings

The upper and lower range limits bound the STG740 sensor family; they do not establish the calibrated span of the offered transmitter. Keep the chosen lower and upper range values within those limits and retain at least the published minimum span.

The optional reference accuracy, response time and communication rows are conditional family data. Do not apply an option-dependent figure until the delivered long-code execution, fitted communication and calibration record are confirmed.

## Installation and commissioning sequence

**01 Confirm the process connection**

Compare the fitted meter body and connection orientation with the piping design.

**02 Record calibration**

Preserve lower and upper range values, units and damping.

**03 Check protocol**

Read the actual transmitter label before assigning HART or DE wiring.

**04 Inspect impulse line**

Apply isolation, draining and pressure restoration procedures.

**05 Verify loop power**

Use the protocol-specific supply and load requirements.

**06 Perform loop test**

Compare local pressure indication and host input at controlled points.

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## If the restored function does not behave as expected

**01 How is a zero shift on STG740-STG740-E1GC4A-1-C-AHB-11S-A-50A0-0000 investigated?**

Check static pressure, impulse-line condition, mounting effects and configured zero before adjusting calibration.

**02 What should be checked if the host reading from STG740-STG740-E1GC4A-1-C-AHB-11S-A-50A0-0000 is unstable?**

Inspect loop power and load, cable shielding, damping and process pulsation.

**03 When can another STG700 device replace STG740-STG740-E1GC4A-1-C-AHB-11S-A-50A0-0000?**

Only after the pressure range, wetted materials, protocol, approvals and full option code are approved.

**04 How should STG740-STG740-E1GC4A-1-C-AHB-11S-A-50A0-0000 be accepted after installation?**

Complete a controlled pressure or loop simulation and record readings at multiple points.

**05 What evidence identifies the exact execution of STG740-STG740-E1GC4A-1-C-AHB-11S-A-50A0-0000?**

Use the complete nameplate and original order record to decode every installed option and certification.

## Acceptance and handover evidence

| | |
|---|---|
| Range selection | Select calibration limits within the STG740 rated range and at or above the minimum span. |
| Output interface | Confirm the actual HART or DE execution before assigning power and communication. |
| Loop verification | Document the process connection and multi-point loop acceptance test. |

Pressure loop: Retain the approved calibrated range, process connection and fitted communication execution.

## Other catalogue references

The references below are navigation aids, not confirmed substitutes. Review each against the installed system.

**Honeywell MC-TDOY22 51204162-175**

**Honeywell 10006/2/1**

**Honeywell 900H03-0102**

Technical basis: Honeywell STG700 SmartLine Gauge Pressure Specification 34-ST-03-102, December 2025.

For the exact offered unit, request current marking and connector photographs and retain the approved as-found configuration with the acceptance record.