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

01 Identity, function and installed-system path

Honeywell STG740-STG740-E1GC4A-1-C-AHB-11S-A-50A0-0000 is an STG740 SmartLine gauge pressure transmitter configuration. The STG740 sensor family measures process pressure through a piezoresistive element with temperature compensation.

How this product fits into the system

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

Pressure measurement

The STG740 range extends from a lower range limit of -14.7 psi to an upper range limit of 500 psi. Its minimum calibrated span is 5 psi, so the selected lower and upper range values must be reviewed against the process envelope and protective overpressure design.

Range planning

SmartLine STG700 devices can be ordered with different communication, display, process-connection and approval selections. The long order code alone is not decoded here; the fitted protocol and wetted-material configuration must be read from the actual nameplate and Honeywell order record.

Configuration boundary

A replacement must preserve the original pressure range, calibrated units, damping, output behavior and mounting arrangement. After installation, verify the impulse line, zero reference and control-system reading under the approved loop procedure.

Evidence boundary

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 Ratings, interfaces and applicable limits

Verified technical specifications

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
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

Applying these values

The STG740 range values describe the sensor family. Optional accuracy and the fitted communication or process connection require confirmation of the complete delivered execution.

Technical boundary

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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03 Application decisions and compatibility

Where the product is used

01 Closed-loop pressure control

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

02 Local process indication

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

03 Alarm and trend monitoring

Feed configured pressure alarms and historical trends through the selected transmitter output and host input.

04 Experion PKS integration

Use the transmitter with Experion PKS when the delivered communication execution matches the installed input interface and loop design.

Compatibility decisions before use

Confirm the process connection:

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

Record calibration:

Preserve lower and upper range values, units and damping.

Check protocol:

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

Inspect impulse line:

Apply isolation, draining and pressure restoration procedures.

Verify loop power:

Use the protocol-specific supply and load requirements.

Perform loop test:

Compare local pressure indication and host input at controlled points.

Engineering decision record

Process reference	Retain the approved gauge-pressure span, engineering units and pressure tap arrangement.
Loop interface	Record the fitted communication option, host input configuration and loop supply.
Acceptance evidence	Compare applied pressure, local indication and host reading at controlled test points.

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04 Eight engineering questions beyond the table

01 How should the calibrated range of STG740-STG740-E1GC4A-1-C-AHB-11S-A-50A0-0000 be preserved?

Record the installed LRV, URV, engineering unit and damping before exchange; verify them against the approved loop sheet.

02 Can the HART supply range be assumed for STG740-STG740-E1GC4A-1-C-AHB-11S-A-50A0-0000?

Only after the delivered communication option is confirmed from the nameplate and order record.

03 What pressure connection details matter for STG740-STG740-E1GC4A-1-C-AHB-11S-A-50A0-0000?

Match meter-body orientation, process thread or flange, seal material and isolation arrangement to the installed instrument.

04 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.

05 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.

06 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.

07 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.

08 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.

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05 Selection boundary and service handover

Identify the offered assembly

Compare the full STG740-STG740-E1GC4A-1-C-AHB-11S-A-50A0-0000 marking, visible revision and physical interfaces with the installed item. Request current overall, label and connector photographs, and retain the exact quoted reference in the maintenance record.

Lifecycle and replacement assessment

Confirm current manufacturer support and replacement status for the complete marking and revision. Seller stock and dispatch availability are separate quotation matters; approve interchangeability against the actual host, software and site drawings.

Companion equipment and supply scope

Record the host, cables, mating connectors, accessories and documents needed for the installed arrangement. Confirm the delivered items individually in the quotation; a compatible companion shown in the system path is not automatically included.

Engineering handover

Keep the as-found hardware identities, approved configuration, before-and-after measurements, diagnostic results and completed acceptance record together. Validate the affected process or communication path before returning the equipment to service.

Related product references

These are other catalogue references, not confirmed substitutes. Assess fit independently.

Honeywell MC-TDOY22 51204162-175

Honeywell 10006/2/1

Honeywell 900H03-0102

Discuss the exact product and installed configuration

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

Order review record

Before release: confirm the complete order code, process connection, communication option and calibration range in the quotation.