PRESSURE MEASUREMENT

700 / 710 / 720
720HY

General Installation & User Guide

Practical guidance for receiving, installing, commissioning and maintaining WESIVO pressure instruments.

Scope of this guide
This is a shared family guide, not a complete model-specific electrical instruction sheet. The supplied unit nameplate, order specification and approved wiring diagram control the installation. The 720E is a separate variant and is not covered by the electrical ratings of this guide.

Before installation

Confirm the exact model, pressure range, process connection, wetted materials, output signal and supply voltage. If the wiring information is missing, obtain it from WESIVO before connecting power.

Installation and servicing must be performed by personnel qualified for the process and electrical equipment involved.

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Identify the correct family

The values below describe catalogue selection options. They are not the calibrated range or approval status of every delivered instrument.

Model	Sensing / configuration	Catalogue selection
WESIVO-700	Ceramic pressure sensor	Range options: 0 to 350 bar Accuracy: ±0.5% FS
WESIVO-710	Piezoresistive silicon; flush diaphragm; stainless steel wetted parts	Range options: -1 to 600 bar Accuracy: ±0.2% FS
WESIVO-720	Piezoresistive silicon; stainless steel wetted parts	Range options: -1 to 600 bar Accuracy: ±0.5% FS or ±0.2% FS
WESIVO-720HY	Piezoresistive silicon; Tri-Clamp process connection	Range options: 0 to 350 bar Accuracy: ±0.5% FS or ±0.2% FS

Application considerations

700: Check media compatibility with the ordered ceramic sensing element and seal.
710: The flush diaphragm supports use with viscous or solid-containing media when the ordered wetted materials and connection are suitable.
720: Check the selected range, accuracy option and stainless steel wetted components against the process.
720HY: Match the supplied clamp, ferrule and gasket. Catalogue drawings include 1.5-inch connection variants identified with ASME, DIN 32676 or ISO 2852; confirm the ordered dimensions.

Do not assume interchangeability
720 and 720E are different designations. Do not transfer 720E supply voltage, pin assignments, cable colours, temperature limits or overload ratings to any family in this guide. Hygienic connection styling does not establish CIP/SIP limits or a sanitary certification.

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Install the pressure connection

1. Inspect and verify

Check the package and instrument for damage. Record the model, serial number and range. Verify the process medium, pressure, temperature, seal and wetted-material compatibility against the ordered specification.

2. Make the process safe

Isolate and depressurize the process before fitting or removing the instrument. Allow hot equipment to cool. Follow site procedures for draining, venting and handling hazardous media. Verify zero pressure before loosening a connection.

3. Fit the correct seal and connection

Use the seal specified for the delivered connection. Do not mix parallel-thread sealing methods with tapered-thread methods. Apply tools only to the intended wrench flats; do not tighten by twisting the housing, connector or cable. Use the connection-specific torque supplied with the ordered unit.

4. Protect the sensing element

Keep the pressure port and diaphragm clean. Do not insert wire or tools, and do not press or brush an exposed diaphragm. Avoid stress from piping, impact, vibration and unsupported cable weight.

5. Inspect before pressure is restored

Check mechanical seating, seals and clearance. For 720HY, verify clamp engagement, ferrule alignment and gasket compatibility. Increase pressure gradually using site-approved procedures and inspect for leaks.

Ratings that must be confirmed
This family guide does not specify supply voltage, pinout, ingress protection, temperature limits, proof pressure, burst pressure, tightening torque or cleaning-cycle limits. Obtain the ordered model data before operating near any limit.

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Connect and commission

Electrical checklist

Check	Required action
Signal type	Identify the ordered output and receiver input type. A current loop and a voltage output require different wiring.
Power supply	Read the unit nameplate and approved data sheet. Keep power off while connecting.
Terminal assignment	Use the diagram for the exact delivered model and connector option. Never infer polarity from cable colour alone.
Cable / connector	Inspect seals and cable entries, provide strain relief and protect unused conductors individually.
Protective measures	Follow the site electrical design and applicable product instructions for grounding, shielding and surge protection.

Commissioning sequence

1. Confirm that the mechanical installation is complete and the process is safe.
2. Check wiring and receiver scaling against the ordered lower and upper range values.
3. Apply the specified supply. Allow the model-specific stabilization time.
4. Compare the reading with a suitable reference at safe, controlled test points.
5. Check the control-system display, alarms and signal-loss handling according to the site test plan.
6. Record the results before releasing the instrument for use.

Scaling check
Use the calibrated lower and upper range values, not the family range envelope. For a confirmed linear 4-20 mA version only: pressure = LRV + (current in mA - 4) / 16 × (URV - LRV). This formula does not establish that the delivered unit has a 4-20 mA output.

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Maintain and resolve problems

Routine care

Inspect for leaks, corrosion, cable damage, loose mounting and moisture at connectors. Set inspection and calibration intervals to match the process risk and site quality plan. Use only a cleaning method compatible with the sensor, seals and approved temperature limits.

Symptom	Checks before requesting service
No signal	Verify supply at the instrument, output type, wiring continuity and receiver configuration.
Unstable signal	Check supply stability, electrical interference, connector moisture, vibration and real process pulsation.
Unexpected offset	Verify pressure reference, range scaling, process temperature and installation stress. Compare with a calibrated reference.
Fixed or out-of-range reading	Check the actual pressure, receiver range and possible obstruction. Do not mechanically probe the pressure port.
Leakage or physical damage	Isolate, depressurize and remove from service according to site procedures. Do not continue operation.

Service and returns

Do not change internal adjustments without the correct service procedure. Before returning equipment, safely remove process residues and disclose the medium and relevant hazards. Supply the fault description and reference-test results.

Technical support

For selection, installation questions or replacement enquiries, send the model, serial number, calibrated range, output type and a clear photograph of the nameplate.

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Document basis

Prepared from WESIVO family catalogue information and general handling guidance. Model-specific limits and wiring remain subject to the supplied unit documentation. Revision 1.0; editorial issue dated 20 September 2026.